UNIVERSITY OF SOUTHERN MISSISSIPPI

bulletin

1963-'64

HATTIESBURG, MISSISSIPPI

GRADUATE BULLETIN ISSUE

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Note: Programs previously accredited by the American Association of Colleges for Teacher Education are accredited by the National Council for Accreditation of Teacher Education.

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GENERAL CALENDAR 1963-64

FALL QUARTER

Tuesday, August 27
Deadline for making application for admission

Monday, September 9
6:00 P.M. Registration for night classes and graduate classes
8:00 P.M. Monday night classes begin meeting

Thursday, Friday, Saturday, September 12, 13, 14
8:00 A.M. Classes begin meeting on schedule (Saturday classes meet on Monday schedule)
8:00 A.M. Fee for adding and dropping classes effective

Thursday, September 19
Last day for registering or adding fall quarter classes

Tuesday, September 24
Last day for dropping classes without penalty

Monday, October 21
Beginning of second term of fall quarter - only date for adding or registering for second term courses without penalty. (Date for reporting mid-term deficiencies)

Thursday, October 24
English Profeciency Examination

Friday, November 1
Reading Exams in Foreign Language

Saturday, November 9
Miller Analogy Test

Saturday, November 16
Graduate Record Examination: Qualifying Examination for Doctoral students

Thursday, Friday, Saturday, November 21, 22, 23
Fall quarter examinations

WINTER QUARTER

Monday, November 11
Deadline for making application for admission

Monday, December 2
6:00 P.M. Registration for night classes and graduate classes
6:00 P.M. Monday night classes meet

Tuesday, December 3
Continuation of registration. Last day of registration without late registration fee.

Wednesday, Thursday, Friday, Saturday, December 4, 5, 6, 7
8:00 A.M. Classes meet on schedule. (Saturday classes meet on Monday schedule)
8:00 A.M. Fee for adding and dropping classes effective on Wednesday, December 4

Wednesday, December 11
Last day for registering or adding winter quarter classes

Monday, December 16
Last day for dropping classes without penalty

Thursday, December 19
6:00 P.M. Christmas holidays begin. (Thursday night classes and Saturday morning classes meet)

Friday, January 3
8:00 A.M. Class work resumed

Saturday, January 4
All classes meet on Monday schedule
Saturday, January 11
Miller Analogy Test
Saturday, January 18
Graduate Record Examination
Thursday, January 23
Beginning of second term of winter quarter - only date for registering or adding second term classes without penalty. (Date for reporting mid-term deficiencies)
Thursday, January 30
English Proficiency Examination
Saturday, February 15
National Teacher Examination
Wednesday, Thursday, Friday, February 26, 27, 28
Winter quarter examinations
Saturday, February 29
Last day to file degree applications for June graduation

SPRING QUARTER

Monday, February 17
Deadline for making application for admission for the spring quarter
Friday, March 6
Reading Exams in Foreign Language
Monday, March 9
6:00 P.M. Registration for night classes and graduate classes
8:00 P.M. Monday night classes meet
Tuesday, March 10
Continuation of registration. Last day to register without late fee.
Wednesday, Thursday, Friday, Saturday, March 11, 12, 13, 14
8:00 A.M. Classes meet on schedule. (Saturday classes meet on Monday schedule)
8:00 A.M. Fee for adding and dropping classes effective on Wednesday, March 11
Wednesday, March 18
Last day for registering or adding spring quarter classes
Monday, March 23
Last day for dropping classes without penalty
Thursday, March 26
6:00 P.M. Easter holidays begin (Thursday night classes and Saturday morning classes meet)
Monday, March 30
8:00 A.M. Class work resumed
University of Southern Mississippi Day
Saturday, April 4
Qualifying Exam for Doctoral students: Comprehensive Exam
Thursday, April 16
Beginning of second term of spring quarter—only date for adding or registering for second term courses without penalty. (Date for reporting mid-term deficiencies)
Saturday, April 18
Miller Analogy Test
Thursday, April 23
English Proficiency Examination

Saturday, April 25
Graduate Record Examination

Friday, May 1
Reading Exam in Foreign Language

Tuesday, May 4
10:00 A.M. Honors Day convocation

Thursday, Friday, Saturday, May 21, 22, 23
Spring quarter examinations

Saturday, May 23
Last day to file degree applications for August graduation

Wednesday, May 27
5:45 P.M. Graduation exercises

SUMMER QUARTER

Thursday, May 14
Deadline for making application for admission for the summer quarter

Thursday, June 4
6:00 P.M. Registeration for night classes and graduate classes
8:00 P.M. Thursday night classes meet

Friday, June 5
Continuation of registration. Last day to register for summer quarter without late fee.
6:30 P.M. Monday night classes meet

Monday, June 8
8:00 A.M. Classes meet on schedule

Wednesday, June 10
Last day for dropping first term courses without penalty

Monday, June 15
Last day for registering or adding full quarter classes

Monday, June 15 or Friday, June 19
Annual Reading Conference

Friday, June 19
Last day for dropping full quarter courses without penalty

Friday, July 10
First term examinations

Saturday, July 11
Graduate Record Examination

Saturday, July 18
Comprehensive Examination

Monday, July 13
Registration for second term of summer quarter. Second term courses may be added on this date without penalty

Wednesday, July 15
Last day for registering or adding second term courses

Thursday, July 16
English Proficiency Examination

Friday, July 17
Last day for dropping second term courses without penalty

Thursday, Friday, Saturday, August 13, 14, 15
Summer quarter examinations

Wednesday, August 19
5:45 P.M. Graduation exercises

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1962-63

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Buford Berry	Physical Education
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Sammy David Buice	History
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Charles M. Ellzey	Physical Education
Sandra Ervin	Speech
Linda Escobedo	Math
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Myron Frailey	Chemistry
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Charlotte Gentry	Speech
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Luis Jesus Haddad	Economics

David Hamrick	Math
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James Maxwell	Economics
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William Albert Merton III	Music
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Ed F. Ward	Speech
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Cyril John Wierengo, Jr.	Chemistry
James Leonard Williams	Physical Education

THE GRADUATE SCHOOL

GENERAL INFORMATION

The graduate program at the University of Southern Mississippi is based upon firm foundations and ideals of academic excellence, scholarship, and research. These ideals are carried forward by a well-trained and carefully selected graduate faculty utilizing effectively the physical facilities of the university.

In the field of education, the University of Southern Mississippi takes seriously its responsibility for preparing teachers, supervisors, and administrators for all branches of public school service. The Master of Education degree is offered in several fields of education: school administration, secondary education, elementary education, administrative personnel and counseling, communications, psychology of reading, health and physical education, home economics education and speech education. The Master of Science degree is offered in several teaching fields with a major in a subject-matter field and a minor in professional education subjects: the biological sciences, commerce, English, history or social studies, and mathematics.

In the subject-matter fields, the Master of Arts and Master of Science degrees are available. These degrees are offered with majors in the biological sciences, business administration, chemistry, the combined sciences, economics, English, geology, guidance, home economics, industrial arts, mathematics, recreation, physics, the physical sciences, psychology, social sciences, speech, and speech correction.

In addition, the Division of Fine Arts offers programs leading to the Master of Music and Master of Music Education degrees.

The Doctor of Philosophy and Doctor of Education degrees are offered in the School of Education and Psychology with the following areas of emphasis: school administration, secondary education, elementary education, guidance and counseling, educational psychology, health and physical education, and psychology.

PURPOSES AND OBJECTIVES

In recognition of the University of Southern Mississippi's responsibilities as a center of higher learning in Mississippi, a Graduate School was established in 1947 to provide an environment in which research and free inquiry would develop. Among the important goals toward which the Graduate School aims are the improvement of standards of living; the development of natural resources; the improvement of teaching in public schools in Mississippi; and the spread of cultural enlightenment in our area. The attainment of these objectives requires the services and abilities of scholars, specialists, and research workers in the various areas of intellectual endeavor. Within the limits of the physical resources, the equipment, and library facilities available, the Graduate School has expanded from time to time to meet the needs and requirements of the people of the State.

Every effort is made to keep class work at a high level with emphasis upon extended research and reading. Students are expected to do superior work and to master subjects rather than merely meeting minimum requirements and complying simply with formal standards indicated in programs leading toward various advanced degrees.

It is reasonable to assume that a graduate student has full responsibility for knowledge of rules and regulations of the Graduate School and of departmental requirements relevant to his individual degree program.

ADMINISTRATIVE ORGANIZATION

The Dean of the Graduate School is the administrative officer responsible to the President of the University for the execution of the policies governing graduate work as determined by the Graduate Council. The Dean of the School of Education and Psychology, the Dean of the School of Arts and Sciences, the Dean of the School of Commerce and Business Administration, the Chairman of the Division of Fine Arts, and the Chairman of the Division of Home Economics are responsible to the Dean of the Graduate School for the execution of graduate school policies, advisement, and course work within their respective schools and divisions. The Graduate Council is the polisy-determining body of the Graduate School. The Dean of the Graduate School is chairman of the Graduate Council. Other members are the Dean of the University, the deans of the three academic schools, the chairmen of the two academic divisions, and three graduate faculty members from each of the three schools elected by the graduate faculty of their respective schools. The elected members of the Graduate Council serve staggered terms of three years each.

FELLOWSHIPS

A number of graduate fellowships are available for the most promising among the graduate students enrolling at the University of Southern Mississippi. Usually a limited amount of work or teaching is expected of students holding fellowships. To be considered a candidiate for a fellowship, the applicant must have an overall average of B or better. Applications for the information about graduate fellowships may be obtained by writing to the Dean of the Graduate School.

GRADUATE FACULTY

The graduate faculty is composed of all faculty members who hold the doctoral degree and other faculty members who do not have the terminal degree and who hold the rank of assistant professor or a higher rank if approved by the Graduate Council.

ADMISSION TO THE GRADUATE SCHOOL

To be admitted to the Graduate School, the applicant must meet the following requirements:

1. Hold a baccalaureate degree from an accredited college or university regarded as standard by the appropriate regional or general accrediting agency.

2. Be in good standing in the institution of learning last attended.

3. Have at least 2.5 (excluding repeated courses) undergraduate average on the last two years of undergraduate study and at least a 3.0 average in undergraduate courses in the field of proposed graduate study. Exceptions to these requirements must be cleared with the appropriate department chairman and the deans concerned.

4. To be admitted to advanced graduate work the student should have a 3.25 average on previous graduate work and possess outstanding potential ability as an advanced graduate student.

STUDENT SERVICES

5. Have adequate preparation to enter graduate study in the field chosen for concentration (usually the equivalent of an undergraduate minor).

6. Be acceptable to the chairman of the proposed major department, the dean of the school concerned, and the Dean of the Graduate School.

7. Meet all other requirements regarding submission of application forms and credentials in accord with general university admission policies.

Applicants who have been in previous attendance at the University of Southern Mississippi as undergraduates should submit their application forms and supporting credentials at leaat three weeks in advance. Former USM students must request the USM registrar to furnish the Admissions officer with a memorandum of credits earned at the University of Southern Mississippi. Transcripts from other institutions attended since the last attendance at USM must be submitted in duplicate.

Applicants who have never attended the University of Southern Mississippi must submit application forms before the deadline date of the quarter. in which graduate study is to begin. All credentials (application forms, All credentials (application forms, recommendations, transcripts [two from each institution attended], medical record examination) must be submitted by the deadline date.

Admission to the Graduate School does not imply acceptance of the student as a candidate for a graduate degree. Application for admission to candidacy for a degree must be made in the office of the appropriate dean at the time set forth in the Graduate School Bulletin. Admission forms and instructions, are available from the Director of Admissions, Southern Station, Box 11, Hattiesburg, Mississippi.

TYPES OF ADMISSION

Students who are accepted for admission to the Graduate School may expect to be assigned to one of the following categories:

1. **Regular Graduate Student.** An applicant who meets all admission requirements will be admitted to the Graduate School as a regular graduate student.

2. **Conditional Graduate Student.** An applicant whose background indicates certain deficiencies may be admitted conditionally upon recommendation of the chairman of the proposed major department with the approval of the dean concerned and the Dean of the Graduate School. A student with a conditional admission must make grades of "B" or better on his first three graduate courses (minimum of 12 quarter hours of credit) if he is to continue in the Graduate School. After the condition mentioned above has been met, the chairman of the student's department has the authority to recommend that the conditional admission be removed and the student will be reclassified as a regular graduate student.

3. **Non-degree Student.** An applicant who cannot meet the admission requirements for a regular or a conditional admission to the Graduate School may be permitted to register for graduate courses by the Committee on Admissions and Credits (Graduate). A non-degree graduate student may not apply for admission to candidacy for a graduate degree.

GRADUATE WORK BY UNDERGRADUATE SENIORS

University of Southern Mississippi seniors who are within eight quarter hours of completing undergraduate degree requirements may be permitted to register for graduate courses (maximum of eight hours of graduate credit; sixteen hours maximum in undergraduate and graduate work combined) total load not to exceed sixteen quarter huors total) upon approval of the Dean of the Graduate School. This approval does not imply admission to the Graduate School. The student must apply for admission to the Graduate School after baccalaureate requirements are met if he desires to continue with graduate work.

GRADES IN THE GRADUATE SCHOOL ARE AS FOLLOWS:

A — Indicates that the student's work is of unusually high quality.

B — Indicates that the student's work is of high but not exceptional quality.

C — Indicates that the student has met the professor's minimum requirements for passing the course. A student who earns more than 8 hours in grades below B in graduate school may not be considered a candidate for a degree. Retaking the course will not remove this disability.

F — Indicates that the student has failed the course. A studnt who accumulates more than four quarter hours of "F" will not be considered as a candidate for degree. Retaking a course will not remove this disability.

An average of **B** or better is requred of all candidates for graduate degrees.

In computing avrages, a **C** must be balanced by one **A**, and an **F** by two **A's** of equal graduate credit.

The one year limitation for an **I** to be removed does not apply to theses. The general regulation of completed work within six years does apply.

ADMISSION TO CANDIDACY FOR A MASTER'S DEGREE

Admission to Graduate School does not imply that the student is admitted to candidacy for a degree.

A student may be admitted to candidacy for a graduate degree only after he has demonstrated his ability and fitness to do graduate work. Accumulation of graduate hours shall not be construed to grant admission to candidacy for degree.

This fitness and ability shall be demonstrated in each of the following ways:

1. Completion of a minimum of twelve hours of graduate work with a grade average of **B.**
2. Completion of a prescribed admission form obtainable from the registrar's office. This form shall set forth a proposed program of studies yet to be completed, and signed by the student's major professor. This report should be filed early in the quarter next succeeding his completion of twelve hours of graduate work. In all cases the student must complete at least twenty quarter hours after admission to candidacy.

3. Completion of the University of Southern Mississippi English Proficiency Examination or its equivalent.

4. Completion of the Graduate Record Examination.

5. In addition, completion of other requirements in the school or division of his major as specified.

A faculty committee appointed by the department chairman with the approval of the dean of the appropriate school shall evaluate the records listed and decide on the admission of the student to candidacy. The committee shall consist of the major professor as chairman and faculty members representing major and/or minor fields. The dean of the respective school (or division chairman) should be a member **ex officio.** Three categories shall be set up: (a) Students below a given standard will not be admitted to candidacy; (b) Students may be admitted with conditions; (c) Students may be granted full admission to candidacy for a Master's degree.

Students will be notified by the dean of the appropriate school of the results of the evaluation.

GRADUATE RECORD EXAMINATION

Completion of the Graduate Record Examination is required before a student may be admitted to candidacy for any graduate degree. During the 1963-64 academic year the Graduate Record Examination will be administered on the University of Southern Mississippi campus on the following schedule:

Testing Dates	Registration Deadlines
November 16, 1963	November 1, 1963
January 18, 1964	January 3, 1964
April 25, 1964	April 10, 1964
July 11, 1964	June 26, 1964

Forms for registering for the Graduate Record Examination will be available in the office of the Dean of the Graduate School after July 1, 1963. The candidate is responsible for sending the application with fee to the Educational Testing Service, 20 Nassau Street, Princeton, New Jersey before the above mentioned registration deadlines.

RESIDENT REQUIREMENTS FOR MASTER'S DEGREE

The minimum resident requirement is one academic year or a minimum of three summer sessions of twelve weeks each. This statement presupposes the completion of at least 46 quarter hours work. Some students can complete the requirements for the master's degree in one year. It is not unusual for graduate students to include a summer session of an additional year for the degree.

A **minimum** of one full quarter's work on the campus is required of every graduate student before completion of requirements for the master's degree. This will be strictly enforced beginning with the fall quarter, 1963.

TIME LIMIT: A student should complete for master's degree within six consecutive years from the date of initial enrollment.

MAXIMUM PERIOD ALLOWED: Six years is regarded as the maximum age allowed for graduate credits for master's degree candidates. In case more time than six years is spent on the program, special arrangements may be made with the Dean of the Graduate School for the revalidation of the over-age credits if the original credit was given by the Univer-

sity of Southern Mississippi and if the school concerned approves the revalidation. Any student who fails to complete his program in the period allowed becomes subject to changes in degree requirements adopted up to a date six years prior to his graduation.

REVALIDATION FEE: Under very unusual and extenuating circumstances, regular graduate students may revalidate an over-age course by securing permission of the dean of the school concerned and of the Dean of the Graduate School for a special examination in the course. The applicant shall pay in advance of the examination a fee of five dollars ($5.00) for each course revalidated, three dollars ($3.00) to be paid to the person giving the examination and two dollars ($2.00) to the college. This fee is not refundable once the student has presented himself to the instructor for the examination. Extension courses cannot be revalidated.

MASTER'S DEGREES OFFERED

The University of Southern Mississippi offers the master's degrees mentioned below:

1. MASTER OF ARTS

A degree with a major and minor in an academic field. The minor must have the approval of the student's major professor and the departmental chairman. A thesis is required for this degree. The present language requirement is optional with each department until September 1, 1962. After this date the language requirement will cease to be optional.

2. MASTER OF SCIENCE

A degree with a major in a subject-matter field. The minor may be in any field, but must have the approval of the student's major professor and the departmental chairman. The requirement of a thesis for this degree is a departmental option. There is no language requirement for this degree.

3. MASTER OF EDUCATION

A degree with a major concentration in education. In the case of a major in secondary education, a minor in some subject-matter field will be required. The minor field must be approved by the student's major professor and departmental chairman. A thesis for this degree is optional with the student.

4. MASTER OF MUSIC (See Fine Arts)

5. MASTER OF MUSIC EDUCATION (See Fine Arts)

The majors offered with each of these degrees are outlined in other parts of this bulletin.

MASTER'S THESIS REQUIREMENTS

Throughout this bulletin reference to Plan I in the curricula leading to a Master of Education degree or a Master of Science degree in the teaching of a subject means that a thesis is required, in addition to other requirements. Students who plan to do further study toward a higher degree should choose to write a thesis.

Plan II when mentioned in the various curricula leading to the Master of Education or Master of Science in the teaching of a subject means that a thesis is not required.

SUMMER SESSION

The University of Southern Mississippi conducts a full summer school each year. A full schedule of graduate classes is offered in the summer quarter which is eleven weeks in length. Also, select classes are offered on a half quarter basis in either the first or second half of the summer quarter. In addition, workshops and conferences for teachers are scheduled each summer. In January of each year a bulletin is published showing the offerings in the summer session. It may be obtained by writing to the Director of Admissions, Southern Station, Hattiesburg, Mississippi.

GENERAL REQUIREMENTS FOR MASTER'S DEGREES

Candidates for all Master's degrees must comply with the following regulations:

1. If a student is pursuing a master's degree for which a reading knowledge of a foreign language is required, he should make arrangements for meeting this requirement soon after beginning his graduate study. If the student is scheduled to receive his master's degree in June or August, he must apply in the office of the Dean of the Graduate School for his foreign language examination no later than the preceding October 15. French, German, and Spanish proficiency examinations are administered by the Department of Foreign Languages on the second Friday in November, March, and May. This requirement must be completed before a candidate can qualify for his final comprehensive examination. No re-examination is possible until a candidate has given indication of remedial work.

2. If a master's degree candidate has not had an English writing proficiency test on the undergraduate junior or senior level, he will be required to take an English writing proficiency test at the University of Southern Mississippi. This test is administered by the Department of English.

3. If a master's degree candidate has done graduate work elsewhere and wishs to transfer it to the University of Southern Mississippi he must supply the Director of Admissions with an official transcript of his work. This work in all cases is to have been done within the six-year period allowed for the degree program.

4. Four quarter hours is the maximum load for a quarter if the student is holding a full-time job or teaching position regardless of the student's resident state. The present state certification law limits the student who is teaching to four quarter hours per quarter which may count toward fulfilling the requirements for certification purposes. Sixteen quarter hours is the maximum load for a full-time graduate student. Twelve quarter hours is the maximum load for a graduate fellow if he teaches one undergraduate class or its equivalent. Eight quarter hours is the maximum load for a graduate fellow if he teaches two undergraduate classes or their equivalent.

5. The student who is a candidate for a master's degree must file his application for degree with the Registrar by the end of the quarter previous to the one in which he expects to graduate. The graduation fee of $12.00 must be paid at the time the application is submitted.

6. If a thesis is submitted as partial fulfillment of the requirements for a degree, the following regulations must be met:

   a. The thesis must be submitted to the advisory committee in final draft one quarter prior to the expected date of graduation. The student's advisory committee will pass on the final acceptance or rejection of the thesis.

b. The thesis must be presented to the Dean of the Graduate School by the chairman of the student's advisory committee at least four weeks before the degree is to be conferred. The fee for binding the thesis is $3.00 per copy, regardless of the number of copies the student wishes to be bound, and is payable at the time the thesis is accepted.

c. Three copies of the thesis must be furnished the Dean of the Graduate School. The first copy must be typewritten on 16-pound (100% rag) bond paper and the second and third copy on bond paper of at least 13-pound weight. The student will follow the latest edition of Kate L. Turabian, A MANUAL FOR WRITERS OF TERM PAPERS, THESES AND DISSERTATIONS.

d. The thesis must show independent thinking, original investigation, mastery of subject-matter and ability to do research in the field of major interest.

7. No regular faculty member of the University of Southern Mississippi may take a master's degree in this institution.

8. Normally, all curricula on the master's level require a minor of at least sixteen quarter hours in a field separate from the major. An exception to this is the Master of Music Education degree.

9. An undergraduate major or its equivalent shall constitute the basis for a graduate major in any field. A student who desires to major in any teaching area other than school administration, secondary education, or elementary education must have a minimum of 12 quarter hours of appropriate undergraduate work in education and psychology. The student's attention is called to the undergraduate prerequisites, if any, listed under the course patterns for each major.

10. Work taken more than six years before the date at which the master's degree is expected may not be used to count for credit toward that degree.

11. Exceptionally well-qualified students may make application for admission to the Graduate School if they are students at the University of Southern Mississippi and are within eight quarter hours of meeting bachelor's degree requirements. For this permission to be given, the student must bring certification from the registrar's office to the Dean of the Graduate School that the student lacks no more than eight quarter hours meeting undergraduate degree requirements. If the Dean of the Graduate School approves, he may allow the student to make application for admission to the Graduate School in the office of the Director of Admissions. If admission is granted upon this basis, the student must complete requirements for the undergraduate degree within the first quarter in which he is registered for graduate courses.

12. A minimum of twenty-four quarter hours of the student's work must be in courses numbered 500 and above.

13. In master's degree programs, graduate credit from other accredited institutions is acceptable for as much as nine quarter hours provided it is in the chosen field or fields of the student's work. A student may not take extension courses to count toward his degree if he has transferred nine quarter hours from another institution. As many as eight quarter hours may be taken by extension provided the student has no transfer credit from another institution counted toward his degree.

14. Extension work given by an institution must be acceptable for graduate credit in that institution before the University of Southern Mississippi will allow graduate credit toward the master's degree.

15. A committee of at least three, appointed by the dean of the school on the recommendation of the chairman of the department in which graduate work is being done, will serve as the student's advisory committee. The student's major professor will usually serve as chairman of his advisory committee.

16. In addition to the regular course examinations, final comprehensive examinations will be required of candidates for the master's degree. The major department will determine whether an oral comprehensive, a written comprehensive, or both will be required. The written comprehensive, if required, will be prepared in the major department, with copies being supplied to the dean of the appropriate school. The examination will be general, will cover the area of the major field, and will last approximately three hours. The examination will be scheduled by the major department with the approval of the dean of the appropriate school. The examination will be administered during the seventh week of the quarter in which the student expects to receive the degree. If an oral exaination is required, an examining committee, appointed by the dean of the school or division chairman on the recommendation of the department chairman, will conduct the examination. This committee will represent both the major and minor fields. Written notice of the appointment of the examining committee will be sent to the dean of the graduate school. Also, the department chairman will send written notices of the time and place of the oral examination to the candidate and to each member of the committee. The oral examination may be given any time during the last quarter of attendance but not later than the eighth week of the quarter in which the student receives his degree. The results of both written and oral comprehensive examinations will be supplied to the dean of the school involved, to the office of the registrar, and to the office of the dean of the graduate school. A student who does unsatisfactory work on comprehensive examination will not be permitted to take examination until next regular time.

17. A photograph, 2 by 2½ inches, must be provided by the student at registration. No student is properly registered until the photograph is provided.

18. **SECOND YEAR OR ADVANCED GRADUATE WORK:** Graduate students who hold a master's degree and meet the requirements in one of the following aras may be awarded a graduate school degree in one of these areas: School Administration, Secondary Education, and Elementary Education. This degree requires two years of graduate study and will be known as Educational Specialist in the particular area.

The requirements set forth in the graduate catalog for the master's degree including admission to candidacy are applicable to students electing to study for the specialist degree with the exception that a minor is not required. The choice of elective courses shall be approved by the student's major professor and shall be selected to insure both breadth and depth in the student's professional preparation. To satisfy the residence requirement for this degree, the student must complete a minimum of one full quarter's work as a full-time student after the completion of the master's degree.

DOCTORAL PROGRAM IN EDUCATION AND PSYCHOLOGY

University of Southern Mississippi offers the Doctor of Education and Doctor of Philosophy degrees in the School of Education and Psychology.

Work leading to the doctorate in education is designed to give the candidate a thorough and comprehensive knowledge of his professional field and to develop in him the ability to do original and scholarly research at

an advanced level. Although certain residence and course requirements must be met, it is necessary that candidates for doctoral degrees complete with high distinction a period of extended study and investigation during which they gain control of materials in a chosen field, master methods of advanced study, and illustrate these methods through independent and original research of enduring value.

Equally high standards are maintained for the Doctor of Philosophy and the Doctor of Education degrees.

The Doctor of Philosophy degree is granted to students who have mastered a definite field of knowledge providing familiarity with what has been done in that field of scholarship and its potentialities for further exploration. These students must demonstrate a capacity to do original and independent scholarly investigation and must have the ability to apply their field of specialization to the larger domains of knowledge and understanding.

The Doctor of Education degree is designed for those students who show outstanding promise of becoming superior administrators and teachers. These students frequently are able in their dissertations to apply known principles to practical situations, a project of more professional value to them than the preparation of a dissertation with the objective of establishing new principles or truths.

Admission

See requirements for admission page 16.

Limitations for Staff Members

Members of the resident staff of the University of Southern Mississippi above the rank of assistant professor will not be granted a doctorate at this institution. They may, however, enroll for graduate courses. Instructors and assistant professors must have the approval of the Dean of the School of Education and the Dean of the Graduate School to work toward the doctoral degree at University of Southern Mississippi.

Program of Study

The program of study will consist of the major field in education and one or more minors in related but distinct fields. The dissertation and course emphasis may be in one of the following areas: school administration, secondary education, elementary education, guidance and counseling, educational psychology, health and physical education, and psychology. The nature of the program of study will vary depending upon the field selected and the candidate's objective. It is expected that doctoral candidates will earn a minimum of 112 quarter hours of credit exclusive of the dissertation. The work of the last two years in the candidate's major department must be in courses open only to graduate students.

Since the student is expected to master the field of his major, he will take as many courses as may be required by the department concerned. The minor will normally consist of 28 to 36 quarter hours of credit.

Transfer Credit

Acceptance of credit for graduate work done at other institutions must be approved by the department concerned, by the Dean of the School of Education and Psychology, and by the Dean of the Graduate School.

Resident Requirement

The minimum period of time required for a doctoral degree is nine quarters of full-time graduate study, or its equivalent, beyond the baccalaureate degree. At least three consecutive quarters in full-time residence at

the University of Southern Mississippi during the last two years (six quarters) of graduate work is required. The work for the doctoral degree must be completed within a period of six years after the student is admitted to candidacy.

Qualifying Examination

The student, during his second year of graduate work and previous to admission to candidacy for the doctoral degree, must pass a qualifying examination. This examination will be used to appraise the student's ability to pursue the doctorate in the field and to counsel him in the development of his program of studies. Also, the examining coommittee will inquire into the feasibility of the dissertation project. This examination may be oral and/or written. The department is required to notify the Dean of the Graduate School of the results of the qualifying examination (pass, conditional, repeat, fail).

Language Requirements

A reading knowledge of two modern foreign languages is required of all candidates for the Doctor of Philosophy degree. The Graduate School approves French and German as the languages to be offered in fulfillment of this requirement, but substitutes may be made on the recommendation of the department concerned and with the approval of the Dean of the Graduate School. A reading knowledge of one modern foreign language, or competency in statistical techniques of research is required of all candidates for the Doctor of Education degree. This requirement must be fulfilled before admission to candidacy for degree.

Application for the reading knowledge examination must be made through the office of the Dean of the Graduate School. Scheduled examinations in German and French are administered by the Department of Foreign Language on the first Friday of November, March and May.

PROCEDURE FOR THE GRADUATE READING EXAMINATION IN A FOREIGN LANGUAGE

1. Examinations in French, German, Russian, and Spanish will be given on the first Friday of November, March, and May, and will be administered be the Department of Foreign Languages.

2. The examination is to be written, and it is to be divided into two parts, each of which is to have a time limit of one hour. The amount of material to be translated is to be determined by the Department of Foreign Languages, who will take into consideration the varying degree of difficulty of the various materials. The first part is to be taken **without** the aid of a dictionary from material (approved by the Department of Foreign Languages and the candidate's supervising professor) which has been assigned to him in advance and with which he is to be familiar before the examination; the second part is to be taken **with** the aid of a dictionary from material (approved by the Department of Foreign Languages and the candidate's supervising professor) with which the candidate is not previously familiar, but still in his subject area.

3. Subject materials for the foreign language examinations are to be procured by the department concerned, in the amount of two copies for the library and one copy for the Department of Foreign Languages.

4. The candidate must make application for the foreign language examination not less than two quarters in advance of the anticipated time of the examination, at which time he will be assigned the material with

which he is to become familiar for the first part of the examination. He should not be permitted to make application for the examination until he has presented evidence of sufficient preparation in the language.

5. The Department of Foreign Languages will notify in writing the Dean of the Graduate School of the results of the examination.

6. Proficiency will require ability to translate technical or professional literature into compresensible written English at a rate which assures adequate command for effective research.

7. If the candidate passes the foreign language examination for the master's degree, this is to count as his second foreign language for the doctorate.

8. No language re-examination will be given until a candidate has presented sufficient evidence of remedial work in the language.

Admission to Candidacy for Degree

Admission to the Graduate School does not imply admission to candidacy for a degree.

Application for admission to candidacy for the doctoral degree must be filed one academic year (three quarters) before the date on which the degree is expected to be conferred.

Before a student can be admitted to candidacy for the doctorate he must meet the following qualifications: (1) complete the Graduate Record Examination; (2) provide evidence of at least two years of teaching experience for the Doctor of Philosophy degree or three years of teaching experience for the Doctor of Education degree; (3) successfully complete the qualifying examination; (4) successfully complete the language requirement; and (5) present an acceptable dissertation subject and program of study. Recommendation for admission to candidacy for degree will be made by the major department to the Dean of the Graduate School for approval.

Advisory Committee

The student's major professor, who is usually selected in accordance with the preference of the student, will guide the student through the early part of his graduate work. Upon admission to candidacy for degree, the Dean of the Graduate School, after consultation with the chairman of the major department, will appoint an Advisory Committee which will be in charge of the work of the student through the completion of requirement for the degree. The committee will be composed of the major professor, who will be chairman, representatives from the student's major and minor fields, and as many other members of the graduate faculty as deemed necessary. The committee will in no circumstances exceed seven members.

Dissertation

The topic for the dissertation must be finally approved by the student's Advisory Committee. The dissertation should be the fruit of thorough investigation of a definite problem and should demonstrate its value by the scholarly and workmanlike manner in which it is presented.

The dissertation must be submitted in final draft to the advisory committee one quarter prior to the expected date of graduation.

Not later than thirty days before date of the final oral examination, the candidate must submit to the office of the Dean of the Graduate School the original and two copies of the completed dissertation as approved by his advisory committee. The dissertation must comply with the rules of form for these prescribed by A MANUAL FOR WRITERS OF TERM PAPERS, THESES, AND DISSERTATIONS by Kate L. Turabian. An abstract of not more than 600 words must be supplied in three copies.

The fees for binding and microfilming the dissertation must be paid to the Business Office and receipts for the same must be presented to the office of the Dean of the Graduate School.

If the candidate wishes to copyright his dissertation, he may inquire about details in the office of the Dean of the Graduate School.

Written Comprehensive Examination

At the conclusion of the candidate's course work and prior to his final oral examination, the candidate must pass a written comprehensive examination in his major field. This examination will be administered by the major department. Results of the examination will be reported to the Dean of the Graduate School by the Chairman of the Advisory Committee. The student will receive a grade of "pass" or "fail". If the grade is "fail", the student may take the written comprehensive a second time at the next regularly scheduled sitting of the test.

Final Oral Examination

After the dissertation has been accepted, but at least two weeks before the candidate is scheduled to receive his degree, a final oral examination on the dissertation and related fields will be conducted by the student's Advisory Committee and other faculty members designated by the Dean of the Graduate School. The examination will be open to any member of the graduate faculty. The Chairman of the Advisory Committee will be responsible for scheduling the final oral examination and for reporting the results to the Dean of the Graduate School.

THE COURSES OF STUDY

Courses open to graduate students are of two classes (1) those numbered G300-G499, which are open to advanced undergraduates as well as graduate students; and (2) those numbered above 500, which are exclusively for graduate students.

Students registered for any course numbered from G300 to G499 inclusive are required to have graduate standing in the field concerned before the extra work required for graduate credit may properly be assigned or graduate credit granted. The assignment of this extra work is left to the discretion of the instructor concerned but is to approximate a 50 per cent increase in laboratory or library work required of under-graduate students in the same course.

All courses have certain prerequisites for admission. Since prerequisite preparation may be obtained at other institutions through courses differing from those offered at University of Southern Mississippi, it is difficult to describe clearly the nature of prerequisites in every case. A student who wishes to enter a particular course, however, will satisfy the department concerned that he has had preparation adequate for admission to the course.

STUDENTS' EXPENSES

A primary objective of the university is to hold to a minimum the expense of its students. Changes in fees are made whenever possible, to benefit the students. Increases are made only when required for support of the institution or improvement of the activity program of the students.

Business Regulations

Announcements concerning expenses and furnishings are subject to change without notice and may not be regarded as binding obligations of the university. In time of changing conditions this stipulation is necessary.

Expenses are in the form of incidental fees, room, board and special fees.

INCIDENTAL FEE. This fee is used for general support of the university and consists of charges for matriculation, library, athletic activities, health service, university union, university newspaper, laboratory, concert series, maintenance, etc. Athletic activities, health service and newspaper are not included for part-time students.

Clinical and hospital services covered by the health service charge included in the incidental fee are limited to cases of ordinary illness. Services are provided within the limits of the professional, technical and physical resources of the clinic. The university does not assume responsibility in cases of extended illnesses or for treatment of chronic diseases. Cases requiring surgery must be handled by a physician and hospital of the student's choice.

ROOM AND BOARD. These fees are assessed for all students living in university-controlled housing. The board fee is assessed for all students living in fraternity houses, and in certain cases fraternity room fees are assessed by the university. All students rooming in dormitories or fraternity houses are required to take their meals in the university commons.

A room deposit of $8.00 is payable in advance for the reservation of a room in the dormitories. This amount is held as a breakage deposit until a student withdraws from the dormitory.

A student accepting a room in the dormitory will be financially obligated to pay for one quarter of the dormitory fee. A refund of the dormitory fee will be made only because of official withdrawal from the university.

No reduction in room and board expenses is made for absence of less than two continuous weeks, and then only when the absence is necessary and is reported to the business office in advance. No reduction of room or board is made on account of late entrance.

OTHER FEE INFORMATION. Fees of all students are due and payable at time of registration; however, fees of full-time students (12 hours or more) may be paid one-half upon entrance and the balance prior to the beginning of the second half of the quarter.

Students enrolled for more than 18 quarter hours will be assessed an additional $7.00 per quarter hour in excess of 18.

Students who are permitted to register for correspondence courses in residence will be charged a fee of $6.00 per quarter hour.

A fee of $1.00 is assessd each quarter for operation of the university union. This fee is added to the incidental fee assessment of part-time students.

Courses requiring special fees and music fees are shown in the Special Fee listing (Table II).

A $6.00 fee for the Southerner (university annual) is payable by all full-time students on entrance the fall quarter.

REFUND POLICY. A student who officially withdraws after enrollment may obtain a refund in accordance with the following:

a. A refund of 90% of incidental and special fees will be made to a student who withdraws within seven (7) days after the date of registration.

b. A full-time student withdrawing for any reason prior to midterm of any quarter but following seven (7) days after the date of registration will be refunded 50% of the incidental and special fees.

c. A full-time student withdrawing after midterm of any quarter will not be entitled to a refund of fees.

d. Special and part-time students will not be entitled to a refund of fees after seven (7) days from the date of rgistration.

e. Students enrolled for evening classes meeting twice a week will not be entitled to a refund of fees unless withdrawal is made prior to the third meeting of the class. For evening classes meeting once a week, no refund will be made unless withdrawal is made prior to the second meeting of the class.

f. No adjustment of incidental and special fees will be made when courses are dropped after seven (7) days from date of registration.

g. Room and board fees are refunded on the basis of full weeks remaining in the quarter.

TABLE I

EXPENSES EACH QUARTER

Full-Time Student*

Fixed Fees

Incidental fee	$ 80.00
Room rent - Air-conditioned dormitory	69.00
Room rent - other dormitory	54.00
Board	75.00

Other Fees When Applicable

Non-resident fee -	
Student enrolling prior to September 1, 1962	$ 83.33
Students enrolling after September 1, 1963	100.00
The Southerner (fall quarter only)	6.50

Part-Time Student

Incidental fee each quarter hour**	$ 7.00
Non-resident fee each quarter hour -	
Student enrolling prior to September 1, 1962	7.00
Student enrolling after September 1, 1962	8.50

Non-resident fee - P.L. 16 or 894 veterans as follows:

	Enrolled prior to 9/1/62	Enrolled after 9/1/62
Full load (over 12 hours)	$83.33	$100.00
¾ load (9-11 hours)	62.50	75.00
½ load (6-8 hours)	41.66	50.00
¼ load (1-5 hours)	20.83	25.00

*Twelve (12) to eighteen (18) quarter hours constitutes a full load. Students enrolled for more than 18 hours will be assessed $7.00 for each additional quarter hour. (P.L. 550 veterans on the undergraduate level are required by the Veterans Administration to carry a minimum of fourteen quarter hours for the entire quarter to receive full subsistance.)

**A fee of $1.00 a quarter is added for operation of the University Union when this fee is assessed.

TABLE II

SPECIAL FEES AND EXPENSES

Music fees - Private Lessons

Graduates and Undergraduates:

1 quarter hour per instructor	$19.00	per quarter
2 quarter hours per instructor	36.00	per quarter
3 quarter hours per instructor	53.00	per quarter

Graduates only:

4 quarter hours per instructor	87.00	per quarter
Each additional supervised lesson	17.00	per quarter
Orchestral or Band Instrument rental	6.00	per quarter

Examinations and Graduation:

Revalidation Examination	$ 5.00	when applicable
Special Examination	3.00	when applicable
Graduation fee - Bachelor and Master	12.00	with application for degree
Graduation fee - Doctoral	70.00	with application for degree
National Teachers Examination (Education majors)	11.00	
If application is not filed by January 15, 1964, fee will be	14.00	
Thesis binding, not to exceed**	12.00	when applicable
Thesis preparation, not to exceed**	75.00	when applicable

Continuing Education:

Resident Center	$ 8.00	per quarter hour
Resident Center - laboratory fee	6.00	per course
Resident Center - typing fee	5.00	per course
Extension Center	7.00	per quarter hour
Correspondence Courses	6.00	per quarter hour
High School by correspondence	15.00	per credit

Registration and Records:

American College Test	5.00	when applicable
Change of Schedule	5.00	when applicable
Audit Fee (Non-Credit)***	3.50	per quarter hour
Late Registration	10.00	full load
Memorandum of Credits	5.00	partial load
Transcript of credits	.50	when applicable
Science Breakage	5.00	per card

Card is purchased in business office before attending first laboratory meeting. Any balance on card upon completion of course is refundable.

**(Actual costs of charts, typing, materials, binding, etc., payable by G. I. Bill of Rights for P.L. 894 and P.L. 16 veterans on presentation of bills by veterans to university.)

***Audit fee for an activity course is charged at the full rate of $7.00 per quarter hour for the number of quarter hours applicable to the course.

VETERANS

Incidental fees, laboratory fees, and cost of books and supplies are covered by G.I. Bill of Rights for P.L. 894 and P.L. 16 veterans.

Korean veterans under P.L. 550 receive their allowance directly from the Veterans Administration and are therefore subject to pay all fees to the university as non-veteran students.

SPECIAL REFUND POLICY FOR VETERANS ONLY

Non-Resident (Out-of-State) Tuition

Length of regular quarter ..... 12 weeks

Period of Veteran's Actual Attendance in Institution from Date of Enrollment	Per cent of non-resident (out-of-State) Tuition Fees to Be Charged	
	Regular Quarter	**Summer Quarter**
One week or less	20%	25%
Between one and two weeks	40	50
Between two and three weeks	60	75
Between three and four weeks	80	100
Ovr four weeks	100	100

All Charges Other than Non-Resident (Out-of-State) Tuition

Length of regular quarter ..... 12 weeks

Length of summer quarter ..... 10-11 weeks

Period of Veteran's Actual Attendance in Institution from Date of Enrollment	Per cent of Fees to Be Charged Other Than Non-Resident (Out-of-State) Tuition or Fees	
	Regular Quarter	**Summer Quarter**
One week or less	20%	25%
Between one and two weeks	40	50
Between one and two weeks	40	50
Between one and five weeks	50	50
Between five and six weeks	50	100
Over six weeks	100	100

SCHOOL OF EDUCATION AND PSYCHOLOGY

Ralph S. Owings, Dean

One of the major objectives of this school is to prepare persons on the graduate level for administrative, supervisory and teaching positions in elementary and secondary schools and institutions of higher learning. Another objective is to prepare persons in the area of personnel and guidance work. A third is to give a foundation for advanced graduate work in psychology leading to the doctoral degree to those students who intend to accept positions as psychologists in schools, industry, state institutions, welfare agencies and clinics. Again, graduate degrees are offered in non-teaching fields in certain departments, such as guidance, recreation, and psychology. The school also serves other schools and divisions of the university having need for courses which are usually offered by professional schools of education.

DEGREES OFFERED

The School of Education and Psychology offers the Master of Education, the Master of Science, the Master of Arts, Doctor of Education, and Doctor of Philosophy degrees. The requirements for each degree are set forth elsewhere in this bulletin.

GENERAL REQUIREMENTS FOR ADMISSION

Admission to graduate work in the School of Education and Psychology in general is the same as for admission to graduate study. Procedures are set forth elsewhere in this bulletin. Application for admission is made to the Director of Admissions.

SPECIAL REQUIREMENTS FOR ADMISSION

Students otherwise qualified for admission to graduate study but lacking certain courses for teacher certification or other special qualifications may be permitted by the dean to remove such deficiencies along with their graduate study. In every instance, all deficiencies must be removed before the graduate degrees will be awarded.

Suggested Program for

MASTER OF EDUCATION

The recommended curriculum prescriptions which follow apply to the master's degree. The requirement for the doctoral degrees are outlined elsewhere in this bulletin.

DEPARTMENT OF EDUCATIONAL ADMINISTRATION, SUPERVISION, AND CURRICULUM

James Mailey, Chairman

Moody McQuagge Owings Thomas

Basic Course for Majors in School Administration and Supervision

PRINCIPALSHIP

CURRICULUM PRESCRIPTIONS

FED 501—Research: Its Introduction and Methodology. Four Hours
FED 504—Foundations in American Education. Four Hours.
FED 507—Basic Course in Curriculum Development. Four hours.
EPY 510—Advanced Educational Psychology. Four hours.
AED 520—Basic Course in Educational Administration. Four hours.
AED 526—Supervision of Instruction. Four hours.**
AED 550—School Business Management. Four hours.**
AED 598—Thesis. Six hours. (Credit deferred until thesis completed)*
EED 532—Measuring Results in Elementary Education. Four hours.

Total—28 or 34 hours.

Electives—12 or 18 hours.

Specific courses highly recommended:

GED 506—Fundamentals of Guidance. Four hours.
AED 518—The elementary School Principal. Four hours.**
EED 528—Curriculum Problems in the Elementary School. Four hours.
EED 529—Reading in Elementary Schools. Four hours.
EED 576—Pre-School Education. Four hours.
PE 540—Problems of Administration in Health, Physical Education, and Recreation. Four hours.
SED 508—High School Curriculum. Four hours.
AED 516—Secondary School Administration. Four hours.**
SED 554—Reading in the Secondary School. Four hours.
AED 513—Organization and Administration of the Junior High School. Four hours.**

*Required only of students writing thesis.

**Prerequisite: AED 520.

SUPERVISION OF INSTRUCTION

CURRICULUM PRESCRIPTIONS:

FED 501—Research: Its Introduction and Methodology. Four hours.
FED 504—Foundations in American Education. Four hours.
FED 507—Basic Course in Curriculum Development. Four hours.
EPY 510—Advanced Educational Psychology. Four hours.
AED 520—Basic Course in Educational Administration. Four hours.
AED 526—Supervision of Instruction. Four hours.**
AED 638—Practicum in Supervision. Four hours.***
AED 598—Thesis. Six hours. Credit deferred until thesis completed)*

TOTAL 28 or 34 hours.

Elective—12 or 18 hours. These courses will be chosen from the fields of curriculum and instruction subject to the approval of the student's major professor.

*Required only of students writing a thesis.

**Prerequisite: AED 520

***Prerequisite: AED 526

SUPERINTENDENCY

CURRICULUM PRESCRIPTIONS—SPECIALIST DEGREE

FED 611—Advanced Curriculum Development. Four hours.
AED 636—Practicum in Educational Administration. Four hours.
AED 668—Public School Finance. Four hours.
AED 698—Research Problem. Four hours.
AED 700—Advanced School Administration and Supervision. Four hours.
AED 704—School Community Relations. Four hours.
AED 706—Administration of School Buildings and Grounds. Four hours.
AED 708—Administration of School Personnel. Four hours.
AED 710—School Law. Four hours.

TOTAL—36 hours.

ELECTIVES—10 hours minimum. These courses will be chosen with the approval of the student's major professor, and additional hours may be required to satisfy deficiencies in the student's study beyond the bachelor's degree.

Specific courses highly recommended for electives:

FED 716—History of Public Education in the United States. Four hours.
FED 718—Comparative Philosophies of Education. Four hours.
AED 638—Practicum in Supervision. Four hours.

NOTE: Where advanced graduate students in School Administration have not taken the following courses during their first year of graduate work it is recommended they take the following courses to strengthen their over-all knowledge of the field of general school administration.

AVE 517—Organization and Administration of an Audio-Visual Program. Four hours.
GED 506—Fundamentals of Guidance. Four hours.
PE 540—Problems of Administration in Health, Physical Education, and Recreation. Four hours.
AED 513—Organization and Administration of the Junior High School. Four hours.

CURRICULUM PRESCRIPTIONS—DOCTOR'S DEGREE

FED 611—Advanced Curriculum Development. Four hours.
AED 636—Practicum in Educational Administration. Four hours.
AED 638—Practicum in Supervision. Four hours.
AED 668—Public School Finance. Four hours.
AED 700—Advanced School Administration and Supervision. Four hours.
AED 704—School Community Relations. Four hours.
AED 706—Administration of School Buildings and Grounds. Four hours.
AED 708—Administration of School Personnel. Four hours.
AED 710—School Law. Four hours.

TOTAL—36 hours.

ELECTIVES—To complete a program of a minimum of 112 hours exclusive of the dissertation. The student's advisory committee will approve the selection of electives and may require a program of more than the minimum of 112 hours in order to secure breadth and depth in the students preparation program.

Specific courses highly recommended for electives:
FED 716—History of Public Education in the United States. Four hours.
FED 718—Comparative Philosophies of Education. Four hours.

DEPARTMENT OF SECONDARY SCHOOL EDUCATION

Norvin L. Landskov, Chairman
Bigelow Felder Rogers Stegenga

CURRICULUM PRESCRIPTIONS

FED 501—Research: Its Introduction and Methodology. Four hours.
FED 504—Foundations in American Education. Four hours.
GED 506—Fundamentals of Guidance. Four hours
SED 508—High School Curriculum. Four hours.
EPY 510—Advanced Educational Psychology. Four hours.
AED 520—Basic Course in Educational Administration. Four hours.
SED 598—Thesis. Six hours. (Credit deferred until thesis completed)*
A MINIMUM of 24 quarter hours in chosen subject-matter field.

TOTAL—Plan I—48 hours.

TOTAL—Plan II—46 hours, to include FED 501, FED 504, EPY 510, SED 598, twenty-four hours in a subject matter field, and any one of the following courses; GED 506, SED 508, AED 520.

*Required only of students writing a thesis.

BASIC COURSE FOR MAJORS IN SECONDARY EDUCATION

SED 698—Research Problem. Four hours.
AED 704—School-Community Relations. Four hours.
AED 710—School Law. Four hours.
FED 716—History of Public Education in the United States, including History of Education in Mississippi. Four hours.
FED 718—Comparative Philosophies of Education. Four hours.
GED 587—Analysis of the Individual. Four hours.

TOTAL—24 hours.

ELECTIVES: The student may elect twenty-four hours in a subject matter field if the minor is one of the approved fields as outlined in this catalog.

DEPARTMENT OF ELEMENTARY EDUCATION

Leo R. Miller, Chairman

Dent Easterling Knight Thurston Wall

CURRICULUM PRESCRIPTIONS

FED 501—Research: Its Introduction and Methodology. Four hours.
FED 504—Foundations in American Education. Four hours.
AED 520—Basic Course in Educational Administration. Four hours.
EED 528—Curriculum Problems in the Elementary School. Four hours.
EED 532—Measuring Results in Elementary Education. Four hours.
EPY 574—Advanced Child Psychology. Four hours.
EED 596—Research in Reading. Four hours.
EED 598—Thesis. Six hours. (Credit deferred until thesis completed.)*

TOTAL—28 or 34 hours.

FREE ELECTIVES—18 or 12 hours.

Specific courses highly recommended:

EED 518—The Elementary School Principal. Four hours.
AED 526—Supervision of Instruction. Four hours.
EED 536—Practicum in Reading. Four hours.
EED 576—Pre-School Education. Four hours.
EED 578—Art in Child Development. Four hours.

*Required only of students writing thesis.

NOTE: Secondary majors or liberal arts majors who desire to take a major in elementary education must have the following courses: Art 107 and 109, eight hours; MED 361 and MED 362, eight hours; EED 266, four hours; EED 305, four hours; EED 306, four hours; EED 307, four hours. If the student has sufficient background EED 305, 306, and 308 may be taken as graduate work.

EARLY CHILDHOOD EDUCATION

CURRICULUM PRESCRIPTION

EED 501—Research: Its Introduction and Methodology. Four hours.
EED 504—Foundations in American Education. Four hours.
EED 514—Thesis: Six hours. Thesis optional.
EPY 574—Advanced Child Psychology. Four hours.
EED 576—Pre-School Education for School Entrance. Four hours.
EED 578—Art in Child Development. Four hours.
EED G303—Kindergarten and Primary Education. (With Laboratory)

TOTAL—24 or 30 hours.

FREE ELECTIVES—22 or 16 hours.

Courses highly recommended:

AED 526—Supervision of Instruction. Four hours.
EED 528—Curriculum Problems in the Elementary School. Four hours.
EED 596—Research in Reading. Four hours.
EED 532—Measuring Results in Elementary Education. Four hours.

NOTE: Secondary majors, liberal arts majors, or others holding undergraduate degrees who desire to take a major in Early Childhood Education must have the following courses as prescribed for certification by the State Department of Education.

EED

1. Art for Children (109)
2. Arithmetic for Children (301)
3. Social Science for Children (305)
4. Teaching of Language Arts (306)
5. Teaching of Reading (307)
6. Human Growth and Development or Child Psychology (316)
7. Literature for Children (317)
8. Methods and Materials in Elementary Education (343)
9. Music for Children (362)
10. Science for Children (432)
11. Directed Teaching in Elementary Grades (480 or 482) 12 hours.

BASIC COURSE FOR MAJORS IN ELEMENTARY EDUCATION

EED 698—Research Problem. Four hours.
AED 704—School-Community Relations. Four hours.
AED 710—School Law. Four hours.
FED 716—History of Public Education in the United States, including History of Education in Mississippi. Four hours.

TOTAL—16 hours.

ELECTIVES: The student may elect thirty hours in a subject matter field or may take other courses in professional work, depending on the needs of the student.

Advanced graduate students may elect any 500 or above numbered courses listed in the First Year Program, provided the student has not previously completed these courses.

DEPARTMENT OF ADMINISTRATIVE PERSONNEL AND COUNSELING

Herman Boroughs, Chairman
Gutsch Weatherford

The Master's degree in Administrative Personnel and Counseling is designed to prepare candidates in three areas of personnel and guidance work. The student will pursue one of the three curricula: (1) public school level, (2) college and junior college level, and (3) community agencies level.

The student will receive individual assistance from the chairman of his advisory committee concerning his work and choice of courses. The Field Work, Supervised Practice Counseling and Special Problems courses offer flexibility in preparation as well as actual experiences appropriate to the individual student's needs.

1. SCHOOL COUNSELING MAJOR

The program is designed to provide learning experiences in the area of school guidance work, so as to qualify the student in the administration of guidance services in the public schools of the nation. The course pattern will meet the professional and academic requirements for Class AA certification for secondary school counselors in this state.

CURRICULUM PRESCRIPTIONS

FED 501—Research: Its Introduction and Methodology. Four hours.
FED 504—Foundations in American Education. Four hours.
*GED 506—Fundamentals of Guidance. Four hours.
GED 522—Organization and Administration of Pupil Guidance. Four hours.
GED 571—The Information Services in Guidance. Four hours.
GED 581—Methods and Techniques of Counseling. Four hours.
GED 582—Use and Interpretation of Tests in Guidance. Four hours.
GED 587—Analysis of the Individual. Four hours.
GED 593 I, II, III—Supervised Practice Counseling. Two, four, or six hours.

TOTAL—34 or 38 hours.

Specific courses highly recommended—12 to 16 hours.
(With the approval of the Counselor or Trainer)

GED 596 I, II, III—Field Work in Guidance. Two, four, or six hours.
PSY 587—Individual Psychological Testing: Stanford-Binet. Four hours.
PSY 588—Individual Psychological Testing: Wechsler-Bellevue. Four hours.
EPY 510—Advanced Educational Psychology. Four hours.
GED 594—Advanced Guidance Research Seminar. Four hours.
GED 592 I, II, III—Special Problems. One, two or three hours.
SED 507—Basic Course in Curriculum Development. Four hours.
SPE G-486—Psychology and Education of the Exceptioonal Child. Four hours.
GED 584—Group Guidance. Four hours.
EPY 575—Advanced Adolescent Psychology. Four hours.
PSY G-480—Psychology of Personality. Four hours.
GED 516—Vocational Guidance and Adjustment of Exceptional Children. Four hours.
GED 505—Guidance in The Elementary School. Four hours.

(Other electives may be substituted with the approval of the advisor.)

*Students who have Education SED 336, or equivalent course will elect another course in lieu of Education 506.

TOTAL—46 hours.

2. COLLEGE COUNSELING MAJOR

The program is designed to provide preparation in the broad field of student personnel services to meet the needs of General Counselors, Deans of Men and Women, Religious Counselors, Social Directors, Directors of Freshman Orientation, Directors of Housing, Directors of Student Organizations, Directors of Placement, and Registrars. This degree is a Master of Science unless candidate has educational background.

CURRICULUM PRESCRIPTIONS

FED 501—Research: Its Introduction and Methodology. Four hours.
FED 504—Foundations in American Education. Four hours.
*GED 506—Fundamentals of Guidance. Four hours.
EPY 510—Advanced Educational Psychology. Four hours.
GED 586—Seminar in Student Personnel Problems. Four hours.
GED 593 I, II, III—Supervised Practice Counseling. and/or
GED 596 I, II, III—Field Work in Guidance. Two, four or six hours.
GED 582—Use and Interpretation of Tests in Guidance. Four hours.
GED 585—Counseling College Students. Four hours.

TOTAL—30 or 34 hours.

ELECTIVES—12 or 16 hours. (Related to professional needs.)

Electives highly recommended

GED 584—Group Guidance. Two hours.
GED 592 I, II, III—Special Problems. One, two or three hours.
PSY G-439—Social Psychology. Four hours.
GED 571—Occupational Services in Guidance. Four hours.
GED 522—Organization and Administration of Pupil Guidance. Four hours.
PSY G-480—Psychology of Personality. Four hours.
PSY G-491—Abnormal Psychology. Four hours.
EPY 575—Advanced Adolescent Psychology. Four hours.
M&FL 550—Early Marriage Adjustments. Four hours.

*Students who have Education SED 336, or equivalent course will elect another course in lieu of Education 506.

3. COMMUNITY COUNSELING MAJOR

This program is designed to prepare individuals to serve in community agencies in counseling and personnel functions. The course pattern is broad and flexible. Those who plan to work in the area of community health, recreation, family agencies, social welfare, religious agencies, and industry will find the program adaptable to their needs. This degree is a Master of Science.

CURRICULUM PRESCRIPTIONS

SOC G-482—Methods of Social Research. Four hours.
FED 504—Foundations in American Education. Four hours.
*GED 506—Fundamentals of Guidance. Four hours.
GED 582—Use and Interpretation of Tests in Guidance. Four hours.
GED 596 I, II, III—Field Work in Guidance. Two, four or six hours and/or

GED 593 I, II, III—Supervised Practice Counseling. Two, four or six hours.
GED 584—Group Guidance. Four hours.
PSY G-439—Social Psychology. Four hours.

*Students who have Education SED 336, or equivalent course will elect another course in lieu of Education 506.

TOTAL—24 or 28 hours.

ELECTIVES—18 or 22 hours. (Related to professional needs.)

The student will elect, with the approval of the chairman of his advisory committee, from a large number of appropriate graduate courses those which will meet his professional needs. Those who plan to counsel in connection with health and recreation programs will elect heavily from physical education and recreation. Family Counselors will take courses from sociology and home economics. Those who plan to work with industry will choose courses in business administration and psychology. Candidates who plan to pursue further graduate study in counseling, or who plan to carry primary counseling responsibility, will elect from psychology.

PSYCHOLOGY OF READING MAJOR

Eric L. Thurston, Director of Reading Clinic
Dent

The following sequence of courses leading to the Master of Science degree is designed to give the student a background in many aspects of reading. Its purpose is to prepare remedial reading specialists, supervisrs of reading programs in schools and colleges, reading clinicians, and to foster reading research and the preparation of special reading materials.

PREREQUISITE COURSES: Should be taken as "G" course if not completed in undergraduate work.

EED 308—Diagnostic and Remedial Reading. Four hours.

CURRICULUM PRESCRIPTIONS

FED 501—Research: Its Introduction and Methodology. Four hours.
FED 504—Foundations in American Education. Four hours.
FED 507—Basic Course in Curriculum Development. Four hours.
EPY 510—Advanced Educational Psychology. Four hours.
EED 529—Reading in the Elementary School. Four hours.
EED 536—Practicum in Reading. Four hours.
AED 542—Supervision and Curriculum in Reading. Four hours.
SED 554—Reading in the Secondary School. Four hours.
PSY 588—Individual Psychological Test: Wechsler-Scales. Four hours.
EED 596—I, Research in Reading. Four hours.

ONE OF THE FOLLOWING MUST BE COMPLETED

EED 596—II, Research in Reading. Four hours.

or

EED 598—Thesis. Six hours. (Credit deferred until thesis completed)*

TOTAL—46 or 44 hours.

FREE ELECTIVES—none or 2 hours.

*Required only of students writing thesis.

COURSE DESCRIPTIONS

All undergraduate courses that may be allowed for graduate credit are numbered in the G300's and G400's when taken for graduate credit. All graduate courses are numbered in 500's, 600's. or 700's and may NOT be taken by undergraduates.

SCHOOL OF EDUCATION AND PSYCHOLOGY

EDUCATION

ADMINISTRATION (AED)

513—**Organization and Administration of the Junior High School.** Four hours.

The philosophy, functions and curriculum and their implementation in the organization and administration of the junior high school program.

516—**Secondary School Administration.** Four hours.

The practical problems encountered by high school principals: scheduling, calendar, attendance, discipline, office management, records and reports, activities, selection and supervision of staff; the principal's professional growth and his relationship to the school, teachers, and patrons.

518—**The Elementary School Principal.** Four hours.

A study emphasizing the administrative problems of the principal. Considers practices in administration, supervision, school plant, supplies and equipment, attendance, curriculum, personnel, and parent-teacher cooperation. Streses the professional leadership of the principal.

520—**Basic Course in Educational Administration**

A basic course designed for the local school superintendent (city, county, town, or consolidated district), dealing with the various internal and external problems of the school superintendent, particularly with the legal, financial and school plant problems of the local school system.

526—**Supervision of Instruction.** Four hours.

A practical course in supervision from the standpoint of the elementary or secondary principal, supervisor, superintendent. Deals with principles, nature, and procedures in supervision. Emphasizes growth of teachers in service.

AED 542—Supervision and Curriculum in Reading. Four hours.

A study of organizational patterns in reading curricula and methods of improving reading instruction in schools from the point of view of the reading supervisor or consultant and the school administrator.

550—**School Business Management.** Four hours.

A practical course in school business administration and management of school property and school supplies.

555—**Problems of the County Superintendent.** Four hours.

A course designed for county superintendents to study their problems under the direction of a graduate professor.

592—**Special Problems I, II. III.** One to three hours.

A problem study to be approved by the appropriate department head, to develop knowledge and facility in a field of interest for the student which requires preparation of a scholarly paper under the supervision of a graduate professor.

594—**Field Problems in Production I and II.** Four hours each (555a,b)

Opportunity to study local school problems of curriculum revision, course of study construction, evaluation of methods, building projects, community surveys, testing programs, and record systems under careful supervision of authorities in the field of educational research.

598—**Thesis.** Six hours. (Credit deferred until thesis completed.) (514B)

636—**Practicum in Educational Administration.** Four hours.

A study emphasizing problems connected with modern educational administration. Experience in techniques, procedures.

638—**Practicum in Supervision.** Four hours.

A study emphasizing problems connected with supervision from the standpoint of the curriculum director or superintendent.

668—**Public School Finance.** Four hours.

Principles of taxation; local, state, and federal financing of public education; equalization of educational opportunity, budget making.

698—**Research Problem.** Four hours. (702)

Selection of practical educational problems for solution by candidates for Specialist in Education degree, using research and professional knowledge. Scholarly report required.

700—**Advanced School Administration and Supervision.** Four hours.

This course deals with the theory and concepts underlying present day school administration and supervision.

704—**School Community Relations.** Four hours.

A study of the public relations problems faced by the in-service superintendent; reporting to parents and acquainting the community with the purposes, methods, accomplishments and needs of the school.

706—**Administration of School Buildings and Grounds.** Four hours.

Designed for the local superintendent, treating the problem of housing, such as surveys, architect, finance, site, plans and specification, equipment, awarding contract, construction procedures, accepting, building, and care of grounds.

708—**Administration of School Personnel.** Four hours.

A course stressing the administrative relationships involved in developing satisfactory personnel policies, techniques, and regulations dealing with the pupil, the staff and th epublic. The general principles of personnel management as its affects the pupil and staff, instructional and noninstructional, will be covered.

710—**School Law.** Four hours.

Legal aspects of such factors as school income, injury to pupils, keeping the school census, enforcing attendance, teaching certain subjects, and related matter.

712—**Organization and Administration of the Junior College.** Four hours.

The philosophy, functions, and curriculum and their implementation in the organization and administration of the junior college.

790—**Administrative Workshop I, II, III, IV, and V.** One and one-half hours per week. (720)

(Course may be repeated, with only nine hours counting toward a degree)

794—**Field Problems in Administration, I, II, III.** One hour each. (722a,b,c)

Prerequisite: Consent of the Chairman of Department of Educational Administration.

A course dealing with a specific problem in school administration. An on-the-job training program with work being done under supervision of the staff of the Department of Educational Administration.

796—**Seminar on Contemporary Problems in Education.** Two hours. (725)

The seminar is planned to assist doctoral students to become familiar with current problems and issues in education.

798—**Dissertation.** Four hours.

AUDIO-VISUAL EDUCATION (AVE)

G-416—**Audio-Visual Education.** Four hours.

A general course for teachers with emphasis upon sound and visual classroom teaching aids. Attention is given to the sources, selection and the uses of audio-visual materials.

517—**Organization and Administration of an Audio-Visual Program.** Four hours.

A study of functions, organization, and administration of the audio-visual program, with emphasis on staff, and housing requiremnts and determining materials and equipment needs. Practical problems of developing the program and appraising its adequacy and effectiveness.

519—**Utilization, Selection and Preparation of Audio-Visual Materials.** Four hours.

General principles, problems, and practices involved in selecting and utilizing and preparation of audio-visual materials for instructional purposes. Emphasis on the advantages, limitations, and practical uses of each major type of material.

ELEMENTARY EDUCATION (EED)

G-301—**Arithmetic in the Elementary School.** Four hours. (401)

A course in the methods of teaching arithmetic in the elementary grades. Special attention is given to developing an understanding of numbers, teaching basic combinations, and the use of arithmetic textbooks and workbooks.

G-303—**Kindergarten—Primary Education.** Four hours (402)

A study of the contributions which group living makes to the mental and physical health of young children, with emphasis upon child development research in curricular experiences and records designed to help teacher and parent to understand child development.

G-305—**Social Studies in the Elementary Grades.** Four hours. (403)

Social studies in the broad fields and core curriculum with emphasis on objectives and content. Areas, sequence of units, and the evaluation of social studies units for elementary grades is stressed. Preparation and presensation of a complete social studies unit is required.

G-306—**Language Arts in the Elementary School.** Four hours.

A course dealing with the development of skills in writing, spelling, listening, speaking, and related fields.

G-307—**Teaching Developmental Reading.** Four hours.

Effective methods of teaching reading in the classroom.

G-308—**Diagnostic and Remedial Reading.** Four hours. (408)

A course treating diagnosis and remedial treatment of difficulities in reading in the elementary schools with special emphasis on practices suitable for typical classroom situations through demonstration and observation.

G-317—**Methods and Materials in Children's Literature.** Four hours. (417)

Reading in mythology, legend, history, biography, fiction, and poetry. Narrative and dramatic presentation. Comparative editions, graded bibliographies, and standard practice in building collections of books for children.

G-343—**Methods and Materials in Elementary Education.** Four hours. (443)

An examination of materials and their relatedness to methods; stresses approved techniques in light of research in these fields: language arts, social studies, number relationships, handwriting, spelling, science, health, and creative experiences.

G-390—**Reading Conference.** One and one-half hours may be taken one time for graduate credit.

G-421—**Clinical Procedures in Reading I.** Four hours. (410)

Prerequisite: EED 308

A specialized course in diagnostic and remedial reading with emphasis upon educational and psychological testing and the analysis of reading difficulties. Provides clinical practice in testing and remedial work.

G-422—**Clinical Procedures in Reading II.** Four hours. (420)

Prerequisite. EED 308-421

An advanced course in reading clinic procedures. Experience provided in serving as assistant in the reading clinic, administering tests, and testing remedial cases or groups.

G-490—**Workshop in Aviation Education.** Four hours.

May be taken twice for a total credit of eight hours.

528—**Curriculum Problems in the Elementary School.** Four hours.

A course involving analysis of elements of the curriculum. Emphasis is placed upon the implications of social life and the nature of the individual for curriculum development. Evaluates various curriculum procedures in terms of the implications.

529—**Reading in Elementary Schools.** Four hours.

The focus of this course will be on the teaching of reading in the language arts. Specific attention will be given to the application of research and theory in classroom practice. A critical analysis of methods and materials will be an important part of the course.

532—**Measuring Results in Elementary Education.** Four hours.

A course designed to equip the teacher for effective selection and construction of tests for measuring specific achievement of teaching objectives and for statistical interpretation of data. Stresses use of teacher-made tests.

536—**Practicum in Reading.** Four hours.

A laboratory course consisting of analysis of extreme reading disabilities, case typing, and recommended remedial procedures. Experience in techniques, procedures, and the preparation of case reports.

576—**Pre-School Education for School Entrance.** Four hours.

A study emphasizing problems connected with the development of the whole child. Case studies analyzed, materials and equipment for work and play investigated. Activities planned to develop readiness for school.

578—**Art in Child Development.** Four hours.

A consideration of art as an integral part of child growth and as intimately related to the social curriculum of the elementary school. Opportunity provided for creative aspects of learning and for evaluation of experiences.

580—**Research in Child Development.** Four hours.

Research in child behavior, child psychology, maturity factors, laboratory-experimental studies, physical growth studies, clinical and physiologic development, experimental methods of perception in children, inter-personal relationship, behavior among children, or family life variables.

592—**Special Problems I, II, III.** One hour each. (535a,b,c)

A problem study to be approved by the appropriate department head to develop knowledge and facility in a field of interest for the student which requires preparation of a scholarly paper under the supervision of a graduate professor.

596—**Research in Reading I, II, III.** Four hours each. (530a,b,c)

An advanced course for students interested in individual and group research in methods, materials, and procedures of instruction in reading.

598—**Thesis.** Six hours.

603—**Mathematics for Elementary Teachers.** Four hours.

A study of the content of modern courses in elementary mathematics and methods of its presentation. Emphasis is on the development of arithmetic principles and the understanding of concepts which are essential elements of an adequate foundation for teaching arithmetic.

FOUNDATIONS

G-469—**Tests and Measurements.** Four hours.

Consideration of good evaluation practices in elementary and high schools, the preparation and use of informal objectives and essay-type tests, a study of typical standard tests, and an introduction to elementary statistical procedures.

501—**Research: Its Introduction and Methodology.** Four hours.

Methods of scientific inquiry, selection of a research topic, and functional statistics.

504—**Foundations in American Education.** Four hours.

A survey of the philosophies, psychologies, and history of American education intendd to give the student a fundamental understanding of more specialized courses in these fields. Required of all graduate students.

507—**Basic Course in Curriculum Development.** Four hours.

A study of social and phychological factors influencing curricular planning, principles and procedures for validating educational objectives, selecting and structuring experiences, initiating and directing curricular change, and evaluating results of curricular planning.

611—**Advanced Curriculum Development.** Four hours.

A critical study of theoretical curricular issues and their implications for curriculum planning.

Emphasis will be given to system-wide planning from the point of view of the administration.

716—**History of Public Education in the United States.** Four hours.

A critical survey of the development of public education with emphasis on the social, political, religious and economic forces that have influenced this development.

718—**Comparative Philosophies of Education.** Four hours.

A critical examination of philosophical and theoretical concepts of leading modern philosophies and their significance for education.

GUIDANCE (GED)

505—**Guidance in the Elementary School.** Four hours.

A survey of guidance theories and practices as they relate to elementary education. Designed to give elementary teachers, principals, and counselors a fundamental understanding of the role of Guidance in the Elementary School.

506—**Fundamentals of Guidance.** Four hours.

A survey of vocational and educational guidance service designed to give teachers, administrators, and beginning counselors a fundamental understanding of the role of guidance in school programs.

516—**Vocational Guidance and Adjustment of Exceptional Children.** Four hours.

A study of guidance services and adjustment processes as they apply to atypical children including mentally retarded, physically handicapped, partially handicapped, partially sighted, partially hearing, etc., as well as early recognition and direction of gifted children.

522—**Organization and Administration of Pupil Guidance.** Four hours.

Prerequisite: GED 506

The course stresses administrative relationships in instituting and maintaining a program of guidance services, with a study of principles and techniques for formation and evaluation of a complete guidance program.

571—**The Information Service in Guidance.** Four hours.

Prerequisite: GED 506

A survey of practices in guidance programs which give teachers, administrators and counselors knowledges and skills in setting up and maintaining an occupational information file and in making the materials available to students.

581—**Methods and Techniques of Counseling.** Four hours. (590)

Prerequisite: GED 506

A course designed to acquaint the guidance worker with the basic fundamentals of counseling and interviewing the individual. Attention is given to both old and new methods and techniques used in counseling.

582—**Use and Interpretation of Tests in Guidance.** Four hours. (592)

Prerequisite: GED 506

A course designed to provide the counselor with means of securing, recording, and using data concerning individuals and groups. Emphasis is given to practical experience in using tests, inventories and other devices for measurements.

584—**Group Guidance.** Four hours.

A consideration of values of group activities, methods and techniques in furnishing guidance services to individuals within groups. Attention is given to democratic leaderhip methods.

585—**Counseling College Students.** Four hours.

For advanced students planning to become personnel workers, teachers, or administrators. Covers interviewing, personnel records, tests, and case histories.

586—**Seminar in Student Personnel Problems.** Four hours.

Discussion of the problems of student deans, residence hall directors, counselors and religious directors. Special attention is given to the orientation of new students, dormitories, organization, and other phases of student personnel programs.

587—**Analysis of the Individual.** Four hours. (593)

Prerequisite: GED 506

A study of methods and techniques used by teachers and guidance workers in helping individuals evaluate themselves, with consideration of collecting, assembling and using information. Emphasis is on subjective techniques.

592—**Special Problems I, II, III.** One hour each. (535a,b,c)

A problem study to be approved by departmental chairman to develop knowledge and facility in a field of interest of the student. Preparation of a scholarly paper is required.

593—**Supervised Practice Counseling I, II, III.** Two hours each. (591a,b,c)

Prerequisite: GED 581 or GED 585 and consent of instructor.

Assignment of hours and responsibilities arranged with each student. A supervised practicum in counseling giving the advanced student an opportunity for needed experience.

594—**Advanced Guidance Research Seminar.** Four hours.

An advanced course for students interested in individual and group research methods, materials, and procedures in the various guidance service areas.

596—**Field Work in Guidance I, II, III.** Two hours each.

Registration only by permission of instructor.

Assignment of hours and responsibilities will be arranged with each student.

A course designed to give guidance students the opportunity to obtain experience in agencies that provide guidance.

598—**Thesis.** Six hours.

SECONDARY EDUCATION (SED)

G-462—**Curriculum of the Secondary School.** Two hours.

A critical examination of the present day curriculum with greater emphasis upon the core curriculum.

G-464—**Student Activities in Secondary Schools.** Two hours.

Consideration is given to the general nature and organization of the program popularly known as extra-curricular activities. Major emphasis upon the various activities that constitute an activity program in a modern high school.

508—**High School Curriculum.** Four hours.

Various designs of the curriculum as they apply to general and specialized education, and a critical evaluation of content of subject matter areas in terms of the needs of youth.

551—**Advanced Methods in Business Teaching.** Four hours.

Methods, procedures, and techniques in teaching business subjects, with special emphasis on shorthand and typewriting; includes a survey of principles, objectives, testing, curriculum construction, and guidance in business education.

552—**Seminar in Business Education.** Four hours.

An intensive study of specific problems in business education; includes a survey of literature, and emphasis on administration and supervision of high school and junior college business education programs.

554—**Reading in the Secondary Schools.** Four hours.

A course designed to acquaint the secondary teacher with a developmental high school reading program with emphasis on the basic skills in reading. Corrective practices and materials will also be discussed.

592—**Special Problems I, II, III.** One hour each (535a,b,c)

598—**Thesis.** Six hours. (Credit deferred until thesis completed)

601—**Algebra for Secondary Teachers.** Four hours.

A consideration of problems peculiar to the teaching of algebra and a review of special algebraic principles.

605—**Professional Subject Matter in Mathematics.** Four hours.

A study of ways to enrich the teaching of high school mathematics by the introduction of elementary topics from college mathematis.

606—**Geometry for Secondary Teachers.** Four hours.

A consideration of problems peculiar to the teaching of high school geometry and a review of special geometric principles.

607—**Materials in the Teaching of Mathematics.** Four hours.

A study of materials to be used in the teaching of secondary mathematics for multi-sensory aids, mathematics clubs, evaluation, and applications.

608—**Mathematics for Junior High School Teachers.** Four hours.

Prerequisite: To be actively teaching junior high school mathematics or have at least a minor in college mathematics.

A consideration of problems peculair to the teaching of mathematics in grades 7, 8, and 9 and the organization of mathematical subject matter for these grades.

609—**Advanced Professional Subject Matter in Mathematics.** Four hours.

Prerequisite: Education 605

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION AND RECREATION

J. L. Milam, Chairman

McDavid King Nesbitt
Switzer Warren Yarrow Townley

CURRICULUM PRESCRIPTIONS

Prerequisite: An undergraduate major or minor in health and/or physical education thirty quarter hours or the equivalent.

FED 501—Research: Its Introduction and Methodology. Four hours.
FED 504—Foundations in American Education. Four hours.
FED 507—Basic Course in Curriculum Development. Four hours.
PE 542—Problems of Curriculum in Health and Physical Education. .Four hours.
PE 544—Foundations and Trends in Health and Physical Education. Four hours.
HTH 546—Advanced School Hygiene. Four hours.
PE 540—Problems of Administration in Health, Physical Education, and Recreation. Four hours.
REC 592—Problems in Recreation. Four hours.
PE 598—Thesis. Six hours. (Credit deferred until thesis completed).*
HTH G-484—Evaluation in Health and Physical Education. Four hours.

TOTAL—46 or 40 hours.

FREE ELECTIVES—0 to 6 hours.

*Required only of students writing thesis.

ALTERNATIVE PATTERN FOR HEALTH SOCIAL WORKERS

CURRICULUM PRESCRIPTIONS

FED 501—Research: Its Introduction and Methodology. Four hours.
FED 504—Foundations in American Education. Four hours.
FED 507—Basic Course in Curriculum Development. Four hours.
EDUCATION ELECTIVE—(Numbered in the 500's). Four hours.
HTH 598—Thesis. Six hours. (Credit deferred until thesis completed.)*
PE 540 or 542—Four hours.
HTH 546—Advanced School Hygiene. Four hours.
Eight hours in Mental Hygiene, Sociology and Guidance.

TOTAL—38 or 32 hours.

FREE ELECTIVES—8 or 14 hours.

*Required only of students writing thesis.

MAJOR IN RECREATION

CURRICULUM PRESCRIPTIONS

REC 551—Gerontology and Recreation. Four hours.
REC 552—Foundations, Trends, and Philosophies of Recreation. Four hours.
REC 553—Administration and Supervision in Recreation. Four hours.
REC 554—Evaluation in Recreation. Four hours.
REC 555—Outdoor Education and Camping. Four hours.
REC 545—Problems in Recreation. Four hours.
REC 598—Thesis. Six hours. (Credit deferred until thesis completed.)
EDUCATION—Sixteen hours selected with approval of major professor.

TOTAL—46 or 40 hours.

FREE ELECTIVES—0 or 6 hours.

Education courses highly recommended for minor:

FED 501—Research: Its Introduction and Methodology. Four hours.
FED 504—Foundations in American Education. Four hours.
FED 507—Basic Course in Curriculum Development. Four hours.

MAJOR IN HOSPITAL RECREATION

The master's degree program in hospital recreational service is designed to prepare professional specialists for assumption of supervisory and executive responsibility within the para-medical operations of the hospital setting. Course sequences have been arranged to provide recreational as well as medical science knowledge. This program is offered by the Recreation Department as a full major with at least 24 hours of departmental work and 16 to 22 hours of course work in one or more other departments of the college. Included in this program is a nine month clinical experience at the VA Center, Biloxi and Gulfport.

COURSE DESCRIPTIONS

The courses listed below numbered in the 400's may be taken also by graduate students with special permission from the dean of the Graduate School, provided they have not been taken for undergraduate credit.

HEALTH (HTH)

G-337—**Driver Education.** Four hours. (137)

Driver education provides an opportunity for public school teachers to be certified covering such items as program of instruction, use of training cars, delegation of authority, legal responsibilities, and qualifications of teachers.

G-425—**Problems of Child Health.** Four hours.

Prerequisite: Health 179 (79)

Child safety, nutrition, diseases of children, mental health of children, growth.

G-431—**Sanitation.** Four hours.

Problems of sanitation in the home and school, in food, producing and handling, water supply, waste and excreta disposal. Based on an understanding of general biology.

G-435—**Safety Education.** Two hours.

A study of the general program of safety education in public schools, with special reference to the selection and organization of materials, including the methods and techniques of instruction; visual aids, safety projects, special programs, and the utilization of agencies outside the school.

G-452—**Physiology of Exercise.** Four hours.

A study of the physiological changes which occur in the body during muscular activity, based on a general understanding of the human body.

G-454—**Health Education in Elementary Schools.** Four hours.

Methods and materials for the elementary teacher, with special emphasis on instruction and on coordination of school and community health programs.

G-455—**Health Education in Secondary Schools.** Four hours.

Primarily for students majoring or minoring in health and physical education. Materials and techniques for high school teachers of health; conducting the school health program at the secondary level.

G-482—**Kinesiology.** Four hours.

Prerequisites: Biology 101, 102, 103, and 228

Analysis of movement based on a knowledge of anatomy and physiology as applied to the function of muscles in body mechanics.

G-483—**School Health.** Four hours. (492)

Organization and operation of the school health program with emphasis on policies, procedures, problems, cooperating agencies, and field work.

G-484—**Evaluation in Health and Physical Education.** Four hours. (494)

Open to qualified seniors and graduates.

Tests of health, fitness, strength, skills, and abilities. Administration and interpretation.

HTH 540—**Marriage and Family Life.** Four hours.

This course is designed to help students who are interested in programs and materials for marriage and family life; problems related to high school and college; special problems of counseling with these groups, and sources and methods of research.

HTH 546—**Advanced School Hygiene.** Four hours.

Health service, plant and equipment, meeting community needs, utilizing community resources, health instruction.

HTH 550—**Safety Education.** Four hours.

A study of the general program of safety education in public schools, with special reference to the selection and organization of materials, including the methods and techniques of instruction; visual aids, safety projects, special programs, and the utilization of the agencies outside the school.

HTH 592—**Special Problems I, II, III.** One to three hours.

All undergraduate courses that may be allowed for graduate credit are numbered in the 400's when taken for graduate credit. All graduate courses are numberd in the 500's, 600's, or 700's, and may NOT be taken by undergraduates.

HTH 660—**Community Organization for Health Education.** Four hours.

Study of the philosophies of the community and the organizations that deal with health, with emphasis on group work techniques and their use in organizing the community for work in health education; current research in community organizations and examination of programs of community health agencies.

PHYSICAL EDUCATION (PE)

G-401—**Preventive and Corrective Physical Education.** Four hours. (481)

G-404—**Instructor's Course in Life Saving and Water Safety.** Two hours. (144b)

Emphasis on obtaining knowledge and skills beyond the scope of Senior Life Saving and certifying personnel to conduct other water safety courses in schools and community.

G-408—**Techniques of Teaching Rhythms.** Two hours. (422)

Prerequisite: Some knowledge of music.

G-409—**Physical Education in Elementary Schools.** Four hours. (449)

Materials and methods of teaching physical education in the elementary grades; both theory and practical exeprience in selecting, organization ahd directing activities for the elementary school.

G-410—**Physical Education in Secondary Schools.** Four hours. (451)

Experience in planning activities for the high school and in reviewing or learning the necessary skills and techniques of leadership. Opportunity for study of rhythms, dual sports, tumbling, gymnastics, group games (volleyball, speedball, soccer), and aquatics.

G-411—**Theory of Teaching Swimming and Diving. Two hours.** (487)

Prerequisite: Physical Education 363 or equivalent.

540—**Problems of Administration in Health, Physical Education.** Four hours.

542—**Problems of Curriculum in Health and Physical Education.** Four hours.

Fundamental principles and basis of curriculum construction, analysis of activity for teaching purposes and program planning.

544—**Foundations and Trends in Health and Physical Education.** Four hours.

Scientific bases, history, principles, curricula, and professional preparation.

PE 550—**Organization and Administration of Intramural and Extramural Activities.** Four hours.

Theory and practices in the organization and administration of Intramural-Extramural activities as they relate to finances, facilities, equipment, programming activities and personnel.

PE 570—**Facilities and Equipment in Health, Physical Education and Recreation.** Four hours.

Planning facilities for Health, Physical Education and Recreation with special consideration given to recommendations of the Athletic Institute, College Physical Education Association, and the National Recreation Association.

594—**Seminar in Health and Physical Education.** Two hours. (PE548)

Discovery and recognition of problems, evaluation of problems and procedures, types and techniques of research.

598—**Thesis.** Six hours. (Credit deferred until thesis is completed.)

PE 750—**Readings in Physical Education.** Four hours.

Extensive reading and discussion of works of men whose writings have had and will have strong influence on physical education programs in the schools and colleges of the United States.

PE 760—**Physical Effects of Motor Activity.** Four hours.

A graduate course that allows the student to reach an understanding of various physiological effects of activity and to enable him to pursue further any particular interest in this area.

RECREATION (REC)

G-433—**Camp Counseling and Administration of Camping.** Two hours.

A course dealing with the development of skills in the techniques of camp leadership and administration.

G-440—**Recreational Leadership Theory.** Four hours.

A course offering opportunity to develop individual personality and competency in leading recreational activities.

545—**Problems in Recreation.** Four hours. (545)

Special attention to problems in recreation, including small town recreation, the school and recreation, coordinating community recreation services, field trips, public relations, program planning for given situations, and survey for recreational needs.

551—**Gerontology and Recreation.** Four hours.

This is a professional course at the graduate level. The course deals with the study of the aging process and recreational services as a technique which may enable the individual to achieve recognition and status within his own community. The emphasis is placed upon the factors that promote intellectual, emotional, spiritual, and social maturity.

552—**Foundations, Trends, and Philosophies of Recreation.** Four hours.

This course deals with the establishment of a discipline for the field of recreational service. Course content is concerned with concepts that are traceable to early Greek Philosophy, Renaissance explorations, enlightenment humanism, and contemporary philosophies of the American culture. The course presents a conceptualization of recreation, its foundation, philosophies, trends, and place in the American culture.

553—**Administration and Supervision in Recreation.** Four hours.

The content of this course consists of that subject which represents the collected knowledge concerning the field of public administration, its principles, techniques and practices, particularly as it pertains to recreational agencies which provide unique services to the public at large; and more generally to the supervisory process and administrative leadership in recreational agencies.

554—**Evaluation in Recreation.** Four hours.

This course will contain such vital procedures as: the quantitative and qualitative gathering of information about the recreational program; the

creation of standards and the most effective means of comparison with known standards in the recreational process; the use of research techniques to discover the needs of people, to appraise existing facilities, to gauge public sentiment regarding program, to discern departmental development.

555—**Outdoor Education and Camping.** Four hours.

The course contains phases of outdoor education concerning conscious recognition and identification of natural phenomena which includes: (1) an introduction to the elements and philosophy of outdoor education as it is related to recreation; (2) the integration of the arts and sciences in outdoor education; (3) fundamentals of outdoor living or camping; and (4) methods of programming in an outdoor setting.

556—**Organization and Administration in Hospital Recreation Service.** Four hours.

This specialized professional course deals with the organization and administration of hospital services. It provides needed information of types of diseases, disabilities, and other infirmities to be encountered in various types of hospitals, and medical terminology utilized by the professional medical and technical staff in the hospital environment. Diseases that hospitalize people are studied with the aim of providing recreational experiences for the hospitalized person.

557—**Methods, Observation, and Participation in Hospital Recreational Service.** Four hours.

This course is designed to help understand the need for varying types of activity in relation to the disease or disability of the patient.

598—**Thesis.** Six hours. Credit deferred until thesis completed.)

DEPARTMENT OF INDUSTRIAL ARTS

Zed H. Burns, Chairman

The Master of Science degree as a subject-matter degree is offered with the following requirements:

a. Thesis (Optional, to be determined by the student and his major professor).

b. No foreign language requirement at the present time.

c. The student will select from the courses listed below in Industrial Arts a minimum of thirty (30) quarter hours of work. He will also accomplish a minimum of sixteen (16) quarter hours of graduate work in a minor field. Suggested minor fields include the following: Psychology, Education, Psychology of Reading, Counseling and Guidance, Economics, and Mathematics.

COURSE DESCRIPTIONS

G-314—**Leather Work.** Four hours.

Instruction in tooling, embossing, lacing, and designing selected leather projects.

G-350—**Architectural Drawing.** Four hours. (427)

G-400—**Planning and Equipping of the School Shop.** Five hours. (428)

Planning the lay out of rooms and other building facilities. Purchase and arrangement of equipment. Selection of suitable equipment for special conditions. The cost of equipment, supplies and maintenance.

G401—**Shop Care and Management.** Five hours. (129)

A study of machine placement; student movement; arrangement of safety zones; upkeep and repair of tools; tool storage and distribution; storage of materials; assembly areas; general appearance of the shop.

G-409—**History and Philosophy of Industrial Arts.** Five hours. (490)

A critical consideration of various points of view; important contributions to general education; philosophy education; philosophy of industrial arts education.

502—**Foundations and Principles of Industrial Arts.** Four hours. (506)

A basic course of the underlying philosophy and principles of industrial art education. Objectives and relation to allied field. Research and indivdual reports required.

503—**Establishing the Industrial Arts Program.** Four hours. (550)

A detailed consideration of the individual school program in industrial arts, its organization, physical and educational requirements, and coordination with other educational requirements. Specific problems studied and reported.

504—**Shop and Small Plant Design.** Four hours. (560)

Fundamental problems in design of work space. Working drawings and reports required.

530—**Advanced Graphic Science.** Four hours. (570)

A study of the methods and materials used in graphic science, advanced engineering and architectural drafting. Study of the literature and techniqus in this field.

580—**Leadership.** Four hours.

Study of the factors effecting leadership in a school or industrial setting; emphasis is placed on status and esteem as factors.

592—**Special Problems I, II, III, IV.** One to Four hours. (535a,b,c,d)

Intensive study of a selected research area or problem in industrial arts.

594—**Seminar in Industrial Arts Problems I, II, III.** Two hours per quarter. May be taken three quarters.

598—**Thesis. Six hours.** (Credit deferred until thesis completed). (514B)

LIBRARY SCIENCE

LS 510—**The Library in Society**—The library as a social institution, its background, and the forces that have shaped its develpment. Particular attention is give to the public library's relationship to social, governmental, and educational agencies, and the national and international role of the library. Four hours.

LS 520—**History of Books and Printing**—The evolution of the book from the earliest time to the present. An examination of the invention and spread of printing and its impact on the structure of society. Four hours.

LS 525—**Communication and Libraries**—Introduction to the audience, content, control, and channels of distribution of newspapers, radio, television, and motion pictures, with special attention to the relationship of the library to these media and its role as an agency of communication. Four hours.

LS 530—**Advanced Reference and Bibliography**—The study of major bibliographic and reference sources common to large research and reference

collection. The importance of national and trade bibliographies for research and their use in library acquisitions.

LS 535—**Advanced Classification and Cataloging**—Problems in classification and cataloging, including serials, corporate entries, Library of Congress classification, and foreign rules of entry. The theory and practice of classification and subject headings. Four hours.

LS 540—**The College and University Library**—The development of the college and university library. Emphasis upon the role of the library in higher education, and upon problems of administration, personnel, financing, and building and equipment of academic libraries. Four hours.

LS 541—**The Public Library**—The development of the public library as an institution; organization, administration, community responsibilities, the library board, finance, and physical facilities.

LS 542—**Special Libraries**—A study of the rise of the special library with a consideration of the objectives, administrative structure, and problems of special libraries. Provision of an opportunity for each student to investigate a particular field of special librarianship. Four hours

LS 550—**Library Service to Children**—Consideration of library service to children in public libraries and school libraries with emphasis upon objectives, functions, problems of administration. Four hours.

LS 555—**Library Service to Young People**—The study of the objectives, functions, and problems of administration of library services provided by public libraries and high-school libraries to young people. Four hours.

DEPARTMENT OF PSYCHOLOGY

Ray S. Musgrave, Chairman

Barker Gurman Sohn Stritch Watkins *Rabin

The Master of Arts and Master of Science programs in psychology are planned primarily to provide a foundation for advanced graduate work in psychology for students who intend to make psychology their profession, with training to the doctoral level. Students who successfully complete master's work may also qualify for some positions in schools, in state institutions and hospitals, in clinics, in industry, or with government agencies.

General requirements for master's degrees are listed elsewhere in this bulletin, and should be studied by the student and strictly observed. For the Master of Arts degree with a major in psychology, the student must meet the foreign language requirement, complete a minor of 16 hours in another academic field, and write a thesis. For the Master of Science degree in psychology, the student may elect a minor in any field approved by his major professor and the chairman of the department, including educational psychology. A thesis is required, but proficiency in a foreign language is not required for the Master of Science degree in psychology.

Programs leading to the doctor of Philosophy degree in Psychology, and the Doctor of Education degree in Educational Psychology are offered. The general requirements for doctoral degrees are listed elsewhere in this bulletin, and should be observed.

Students contemplating graduate work in psychology are invited to communicate directly with the Department of Psychology.

*on leave 1962-63

PSYCHOLOGY (PSY)

PSY G-445—**Social Psychology.** Four hours. (439)

Prerequisite: PSY 201

Psychological factors and influences in group behavior. Study of the individual in group situations, and the influence of the social environment on his behavior and development.

PSY G-449—**Industrial Psychology.** Four hours.

Prerequisite: PSY 201

Applications of psychological principles and methods to problems of industry emphasizing employee selection and placement, merit rating, accident reduction, training and measurement and improvement of employee morale.

PSY G-450—**Introduction to Statistics for the Behavioral Sciences.** Four hours.

Computation of measures of central tendency, variability, and correlation. Introduction to concepts of sampling techniques (t-tests, chi square, and analysis of variance).

PSY G-451—**Psychological Measurement.** Four hours. (478)

Prerequisite: PSY 201 and 450

Theory problems and techniques of psychological measurement. Group tests of ability, aptitude, interests and personality are emphasized.

PSY G-466—**Experimental Psychology I.** Four hours. (486)

Prerequisite: Psychology 201 and 450 and permission of the instructor.

Two hours of lecture and two two-hour laboratory periods.

Introduction to psychological laboratory work. Experiments include study of sensory and perceptual processes, emotion, and motivation.

PSY G-467—**Experimental Psychology II.** Four hours. (487)

Prerequisite: Psychology 201 and 450 and permission of the instructor.

Two hours of lecture and two two-hour laboratory periods.

Introduction to psychological experimental techniques. Experiments include study of learning, memory, and thinking.

PSY G-480—**Psychology of Personality.** Four hours.

Prerequisite: Psychology 201 and permission of the instructor.

A study of the factors involved in the development of the mature personality, with an analysis of the structure and dynamics of personality; critical review of methods of personality evaluation.

PSY G-481—**Abnormal Psychology.** Four hours. (491)

Prerequisite: Good background in psychology and permission of the instructor.

Study of the major psychoses, the psychoneuroses, and mental deficiency; field trips and demonstration clinics. Primarily for psychology majors, pre-medical students, and students planning to enter law, social work, teaching, or the ministry.

PSY G-482—**Physiological Psychology.** Four hours. (490)

Prerequisite: Psychology 201

Relationships between physiological functions, especially those of the nervous system, and psychological functions, including perception, emotion, motivation and learning. Primarily for psychology majors and pre-medical students.

PSY G-484—**History and Systems of Psychology.** Four hours. (494)

Prerequisite: Permission of the instructor.

Review of the history of psychology and intensive study of current systems of psychology. Primarily for psychology majors as final senior course.

PSY 502—**Advanced Experimental Psychology.** Four hours.

Critical evaluation of and use of a variety of experimental techniques. Each student conducts an original study.

PSY 521—**Introduction to Projective Techniques.** Four hours.

Introduction to the theory and use of various projective techniques in the study of personality.

PSY 522—**Personality.** Four hours.

Consideration of the major theories of personality, and research on the development and measurment of personality.

PSY 523—**Personnel and Industrial Psychology.** Four hours.

Intensive study of selected problems in industrial and personnel psychology.

PSY 524—**Physiological Psychology.** Four hours.

Study of neurophysiological mechanisms in behavior, and related problems.

PSY 531—**Clinical Psychology.** Four hours.

Psychological case-study method, emphasizing historical information, use of clinical tests in personality diagnosis, a general survey of prevention and treatment techniques, including introduction to the several methods of psychotherapy.

PSY 562—**Research Methods: Descriptive Statistical Methods.** Four hours.

Prerequisite: PSY 450 or permission of instructor.

A brief review of measures of central tendency and variability with emphasis upon correlation theory, techniques of calculation and application of correlation methods to tests and research data. Introduction to sampling problems, Pearsons Product Moment Method of Correlation, biserial, point biserial correlations, tetrachoric correlation, contingency correlation, partial and multiple correlation.

PSY 563—**Research Methods: Significance Tests and Experimental Designs.** Four hours.

Prerequisite: PSY 562 or permission of instructor.

A brief review of descriptive statistics and normal curve functions. Study of inference and sampling theory emphasizing parametric and non-parametric tests of significance: critical ratio, t-test, chi square, analysis of variance, problems of experimental design.

PSY 587—**Individual Psychological Testing: Stanford-Binet.** Four hours.

To equip psychological worker to administer individual intelligence tests, and to interpret and apply the test results for diagnosing difficulties in scholastic and personality adjustment. Thorough analysis and intensive practice in mental testing is afforded. The Terman-Merrill Revision of the Stanford-Binet is employed. Approval of the department head or instructor is required for admission to the course.

PSY 588—**Individual Psychological Testing: Wechsler-Scales.** Four hours.

To equip the psychological worker to administer individual intelligence tests, and to interpret and apply the tests results for diagnosing difficulties in scholastic and personality adjustment. Thorough analysis and intensive practice in mental testing is afforded. The Wechsler Scales are employed. Approval of the department head or instructor is required for admission to the course.

PSY 592—**Special Problems I, II, III.** One to three hours. (535a,b,c)

Intensive study of selected research area or field of professional psychology.

PSY 594—**Seminar in Problems in Contemporary Psychology I, II, and III.** Two hours each quarter for three quarters.

PSY 598—**Thesis. Six hours.** (Credit deferred until thesis completed.)

PSY 602—**Experimental Design.** Four hours.

A study of the rationale underlying the selection of appropriate design for experimental work and the analysis and interpretation of results obtained through the use of such designs.

PSY 620—**Philosophy of Science.** Four hours.

A study of scientific methodology, theory construction, and system building in modern psychology.

PSY 640—**Comparative Psychology.** Four hours.

An examination of methodology employed in animal research, and results of experimentation in the area of animal behavior.

PSY 650—**Emotions.** Four hours.

A critical review of the nature and development of emotion, with emphasis upon current theoretical interpretations.

PSY 660—**Perception.** Four hours.

The development and nature of human perception and its relation to adaptive behavior.

PSY 701—**Factor Analysis.** Four hours.

Methods of multivariate analysis, emphasizing methods of factor analysis and cluster analysis.

PSY 710—**Personality Assessment.** Four hours.

A study of theory and practice in the administration of and interpretation of tests used in the assessment of personality.

PSY 731—**Clinical Psychology II.** Four hours. (720)

An analysis of the interrelations between behavior disorders and psychodiagnostics with a view to selection of appropriate therapeutic programs.

PSY 787—**Advanced Eperimental Psychology I, II, III.** Four to twelve hours.

For graduate students who wish to conduct research on individual problems not included in graduate thesis. Emphasis is placed upon background preparation, design and analysis of research data. Problems should be of publishable quality.

PSY 798—**Dissertation.** Four hours.

EDUCATIONAL PSYCHOLOGY (EPY)

EPY 503—**Learning and Motivation I.** Four hours.

Consideration of the basic concepts, problems, and research methodology in the studying of learning and motivation.

EPY 510—**Advanced Educational Psychology.** Four hours.

Designed primarily for the graduate student wishing to broaden his knowledge in the field of psychology of learning. Careful study of research and experimentation dealing with individual and group learning.

EPY 520—**Intelligence: Theories and Development.** Four hours.

Nature of intelligence, and its development; critical evaluation of methods of measurement; relation of intelligence to social efficiency.

EPY 540—**Interpretation of Psychological Tests for Exceptional Children.** Four hours.

A study of the various psychological tests used in the appraisal and evaluation of exceptional children.

EPY 542—**Psychology of the Gifted Child.** Four hours.

Study of the characteristics and needs of gifted children and the various means employed by the schools to provide for these children.

EPY 574—**Advanced Child Psychology.** Four hours.

A course dealing with the mental, motor, social, and emotional development of children of elementary school age. Stresses the application of developmental psychology to education and guidance. Considers child growth as progressive development.

EPY 575—**Advanced Adolescent Psychology.** Four hours.

An advanced study of the adolescent and his needs in the home, school, and community. Includes a survey of the research studies and literature on the period of adolescence, and individual and group reports.

EPY 580—**Leadership.** Four hours.

Prerequisite. Permission of the instructor.

Study of the factors effecting leadership in a school or industrial setting; emphasis is placed on status and esteem as factors.

EPY 598—**Thesis.** Six hours. (Credit deferred until thesis completed.)

EPY 603—**Learning and Motivation II.** Four hours. (630)

An intensive study of the role of contemporary theories of learning and motivation in current research.

EPY 610—**Group Dynamics.** Four hours.

Prerequisite: EPY 580 or permission of instructor.

A study of theory and practice in group development and group dynamics.

EPY 625—**Curriculum for the Mentally Retarded.** Four hours.

Study of different approaches to curriculum development, with emphasis on basic philosophy and goals of teaching the mentally retarded.

EPY 645—**Psychology of Mental Retardation.** Four hours.

Study of personality development, problems of adjustment, and abnormal behavior of the mentally retarded. Consideration of psychological and medical treatment of the emotionally disturbed, mentally retarded individual.

EPY 670—**Seminar in Teaching of Psychology.** Two hours.

An analysis of the psycho-educational problems involved in the undergraduate and graduate teaching of psychology.

EPY 680—**Practicum in Teaching Psychology.** Four hours.

Supervised teaching of courses in psychology.

EPY 685—**Brain Damage and Behavior.** Four hours.

The numerous causes of brain injury are studied and their effects on the mental and physical behavior of man are considered.

EPY 690—**Advanced Social Psychology.** Four hours.

A study of theory, research, and practice related to group processes and their interaction with individual behavior.

EPY 798—**Dissertation.** Four hours.

SPECIAL EDUCATION (SPE)

SPE G-450—**Education of the Mentally Retarded.** Four hours.

A study of the social, emotional, physical, and intellectual characteristics of the mentally retarded; methods of diagnosis and differentiation; special class organization, methods, and materials.

SPE G-486—**The Psychology and Education of the Exceptional Child.** Four hours. (496)

Considers the psychological and educational needs of children in the atypical groups; physically, visually, or auditorially handicapped; defective speech, mentally retarded, or socially and emotionally maladjusted.

SPE G-487—**Problems in Special Education.** Four hours. (497)

Organization and administration at both state and local level of the education of the exceptional child, with attention to the related problems of special education of the atypical, or handicapped child.

SPE G-490—**Workshop in Special Education I, II, III.** One and one-half hours each.

Workshops in selected areas of special education.

SPE 500—**Seminar in Special Education.** Four hours.

Considers recent research and its application to the various areas of special education.

SPE 592—**Seminar in Special Education I, II.** Two hours each.

Examination of medical, sociological, biological, psychological, and institutional aspects of exceptional children.

SPE 598—**Thesis.**

SPE 692—**Reading and Research in Special Education I, II, III, IV.** One hour each.

Reading in special poblems or individual research for students majoring in special education.

SPE 694—**Advanced Seminar in Special Education I, II.** Two hours each.

Problems of diagnosis, treatment, critically reviewing the literature, and designing and conducting research on exceptional children are considered.

SPE 696—**Field Problems in the Administration of Special Education.** One to six hours credit.

Students participate in the activities of an organization involved in administering or teaching special education. This may be at the state or local level, and the student gains supervised experience in an organized program.

SPE 735—**Advanced Study of Problems and Issues in Special Education.** Four hours. May be repeated for credit.

Study of special problems and issues such as philosophy, law, administration, implementation of programs, etc.

SPE 796—**Practicum in Case Work and Guidance of the Exceptional Child.** Two to eight hours.

Individual cases are tested by students and all available information is integrated for diagnostic and educational purposes.

SPE 798—**Dissertation.**

SCHOOL OF ARTS AND SCIENCES

Claude E. Fike, Dean

The University of Southern Mississippi offers the Master of Arts and Master of Science degrees in the School of Arts and Sciences in the following fields: Biology, Microbiology, Chemistry, English, Foreign Languages, Geology, History, Mathematics, Physics, Sociology, Combined Sciences and Social Studies. The major in Combined Sciences is a cooperative offering of the Departmnt of Biology, Chemistry, Mathematics, and Physics. The program requires that work be done in at least two of the cooperating departments and that no more than 24 hours may be taken in a single field.

In choosing a graduate minor a student must have the approval of his major professor and the chairman of his major department. The minor may be chosen from the following fields: Botany, Biology, Chemistry, Economics, Education, English, Foreign Languages, Geography, Geology, History, Mathematics, Microbiology, Psychology, Sociology and Speech.

Close attention should be given the Graduate School Calendar. It is designed to inform students about requirements which are scheduled at specific times throughout the year.

ADMISSION TO GRADUATE STUDY

General requirements for admission to the Graduate School may be found listed elsewhere in this bulletin.

ADMISSION TO CANDIDACY FOR MASTER'S DEGREE

General requirements for admission to candidacy for a master's degree may be found listed elsewhere in this bulletin.

In addition to the general candidacy requirements, a student seeking the Master of Arts degree must present the equivalent of eighteen quarter hours in a foreign language earned as an undergraduate or pass a reading examination. The choice of a foreign language must be approved by the chairman of the major department. Undergraduate credit in a foreign language earned at another institution must be approved by the chairman of the Foreign Language Dpartment.

DEPARTMENT OF BIOLOGY

J. Fred Walker, Chairman

Cliburn Harrises
Gunter Ward
Woodmansee

The Department of Biology participates in programs leading to the Master of Arts, Master of Science, Master of Education, and Master of Science in Combined Sciences degrees. For the Master of Arts, Master of Science, and Master of Education degrees, 46 graduate hours of credit are required, 23 of which must be courses numbered above 500. For the Master of Arts degree, the student must take 16 graduate hours in an academic minor field which is approved by the department, must demonstrate proficiency in a foreign language, and write a thesis. For the Master of Science degree the student may elect a minor in any field approved by the department. Within the department the student may major in biology, zoology, botany, or microbiology. With the consent of his graduate committee, the student may also elect a minor from one of the four subdivisions enumerated above. The minor requires a minimum of 16 quarter hours credit in graduate courses listed in the field of the minor.

In order to fulfill the professional requirements for an education minor leading to the Class AA Teacher's Certificate, a student should take FED-501, FED-504, and four hours from FED-507 and EPY-510 and a four-hour elective in education to give a total of 16 quarter hours credit. There is no language requirement for the Master of Science degree, and the requirement for the thesis is at the discretion of the Department Chairman. For the Master of Education degree in Secondary Education, the student electing biology as a subject matter area must take a minimum of 24 hours in graduate biology courses.

The department also participates in offering the Master of Science with a major in combined sciences. The degree is designed to meet the needs of teachers and prospective teachers of science and mathematics in high schools and junior colleges. General requirements for the degree are as follows:

1. A total of 46 quarter hours credit (the student may be required to take some undergraduate courses in areas of weakness).
2. Twelve quarter hours in education including: FED-501, FED-504.
3. Not less than 12 quarter hours nor more than 24 hours may be taken in any one field of science or mathematics (a typical program may contain 12 hours of biology, 12 hours of chemistry, 12 hours of mathematics, and 12 hours of education).

COURSE DESCRIPTIONS

All undergraduate courses that may be allowed for graduate credit are numbered in the G-300's and G-400's when taken for graduate credit. All graduate courses are numbered in the 500's, 600's, or 700's and may NOT be taken by undergraduates.

G-300—**Protozoology.** Four hours. (442)

Prerequisites: Biology 101, 102, 103.

Two theory periods and two 2-hour laboratory periods each week.

Study of parasitic and free-living protozoa, life histories and anatomy of typical forms. The student is required to prepare permanent and temporary mounts of protozoa.

G-301, G-302—**Comparative Anatomy.** Eight hours. (443-444)

Prerequisites: Biology 101, 102, 103.

Two theory periods and two 2-hour laboratory periods each week.

A comprehensive treatment of the comparative anatomy of chordates. Graduate students will be allowed credit for this course only upon specific permission of the instructor.

G-303—**Embryology I.** Four hours. (490)

Prerequisites: Biology, 101, 102, 103, G-301, and G-302.

Two theory periods and two 2-hour laboratory periods per week.

The embryological development of vertebrates, especially the frog, will be studied. Maturation, fertilization, cleavage, origin and development of germ layers, histogenesis and organogenesis are considered.

G-304—**Embryology II.** Four hours. (491)

Prerequisite: Biology G-303.

A continuation of Biology G-303 and embryology.

Two theory periods and two 2-hour laboratory periods per week.

Development of vertebrates, especially the chick and the pig, will be studied. Histogenesis and organogenesis of the chick, pig, and human are considered.

G-305—**Microtechnique.** Four hours. (466)

Prerequisites: Biology 101, 102, 103.

Six hours laboratory and one hour lecture per week.

The techniques for the preparation of tissues for microscopic study and special techniques for revealing cytological details will be investigated. Extensive series of histological and cytological slides will be required of each student.

G-306—**Histology.** Four hours. (467)

Prerequisite: 24 hours of biology.

Three lecture periods and four hours of laboratory each week.

A thorough study of the principal tissues and organs of the body.

G-311—**Botany I.** Four hours. (417)

Prerequisite: Twelve hours of biology.

Two theory periods and two 2-hour laboratory periods each week.

Advanced course in Botany which treats the gross and microscopic structures, physiology, life cycles, and economic significance of Thallophytes.

G-312—**Botany II.** Four hours. (418)

A continuation of Biology G-311.

Prerequisite: Biology G-311.

Two theory periods and two 2-hour laboratory periods each week.

A study of gross and microscopic structures of the Bryophytes and Pteridophytes.

G-319—**Taxonomy of Higher Plants.** Four hours. (420)

Prerequisite: 20 quarter hours of biology, 4 of which must be botany.

Two theory periods and two 2-hour laboratory periods each week.

Taxonomy and study of wild and cultivated plants. Theoretical laboratory, and field work.

G-320—**Alcohol Studies.** Two hours. (419)

A study will be made of scientific discoveries which may be applied to the solution of one of our greatest social problems. This course will follow in general subject matter as presented by the Yale University School of Alcohol Studies. Considerable library work will be required of all graduate students in this course.

G-321—**Plant Geography.** Four hours. (470)

Prerequisites: Botany 104 and G-319.

This course is designed to acquaint the student with the distribution, both in time and space, of the major groupings of vascular plants. The emphasis is placed on the present distribution of the families, genera and species of flowering plants. Four theory periods per week.

G-322—**Introductory Mycology.** Four hours. (473)

Two hours lecture and four hours laboratory.

Prerequisite: General Bacteriology or Botany 104.

The nature, importance and classification of fungi. Laboratory devoted to general procedures of cultivation and identification.

G-323—**Plant Anatomy.** Four hours. (177)

A study of the anatomy of recent and fossil plants.

G-339—**Bacteriology I.** Four hours. (439)

Prerequisite: 12 quarter hours of biology and 12 quarter hours of chemistry. A consideration of fundamental principles of bacteriology will be noted.

G-340—**General Bacteriology II.** Four hours. (441)

Four hours laboratory and two hours lecture.

Prerequisites: G-339 or 339.

A continuation of 339 or G-339.

G-341—**Water and Sewage.** Four hours. (448)

Prerequisite: General Bacteriology, General Chemistry.

One hour lecture and six hours laboratory.

Considerations of control of water supply purity. Standard methods, sources and types of pollution, methods, aims, and control of sewage

disposal. Laboratory devoted to attainment of facility in technique and familiarity with preparation of media and reagents.

G-342—**Industrial Microbiology.** Four hours. (449)

Prerequisites: Organic Chemistry, General Bacteriology or Mycology.

Four hours lecture, no laboratory.

A consideration of microorganisms of industrial significance, their products, and of the practical problems dictating company policies.

G-343—**Determinative Bacteriology.** Four hours. (164)

One hour lecture and six hours laboratory.

Prerequisite: General Bacteriology.

Principles of selective culture study and bacterial taxonomy. Laboratory devoted to actual application of selective and different techniques.

G-344—**Bacteriology.** Four hours. (487)

Four lectures per week.

A course supplementing Bacteriology G-340 with special emphasis on molds, yeasts, and bacteria associated with disease.

G-346—**Parasitology.** Four hours. (446)

Prerequisites: Biology 101 and 102.

Four hours laboratory and two hours lecture per week.

The epidemiology, morphology and importance of animal parasites, with emphasis on those affecting man.

G-347—**Parisitology.** Four hours. (447)

Prerequisite: G-346 or consent of instructor.

Four hours laboratory and two hours lecture per week.

A continuation of G-346.

G-353—**Marine Invertebrate Zoology.** Nine hours. (453)

Taught at the Gulf Coast Research Laboratory. A study of the structure, natural habitats, classification and economic importance of invertebrate species native to the waters of the Mississippi Sound and around the outlying islands. Fee—$4.00 per quarter hour.

G-357—**Introduction to Marine Botany.** Four and one-half hours. (157)

Prerequisite: General botany and plant taxonomy, and Biology 330. Taught at Gulf Coast Research Laboratory.

A survey, based upon local examples, of the principal groups of marine algae, treating their structure, reproduction, distribution and general biology; including a survey of the common maritime flowering plants, their identification and ecology.

G-360—**Field Zoology: Herpetology.** Four hours.

Four hours laboratory and two hours lecture per week.

Prerequisites: Biology 101, 102, 103.

Collection, preservation, and identification of amphibians and reptiles, with primary emphasis on local forms. Discussions of southeastern United States zoogeography, and faunal problems. Field work when possible.

G-361—**Marine Vertebrate Zoology.** Nine hours. (461)

Taught at Gulf Coast Laboratory.

Prerequisite: Twelve hours in biology, including comparative anatomy.

A formal lecture and laboratory survey of all marine Chordate, including the lower subphyla, the fishes, reptiles, mammals and shore birds.

G-362—**Entomology.** Four hours. (415)

Prerequisites: Biology 101, 102, 103.

This course will deal with the principal groups of insects. Life habits, structural features, life histories, and classification of certain species of economic and general significance will be considered.

G-363—**Ichthyology.** Four hours. (492)

Four hours laboratory and two hours lecture per week.

Prerequisite: Biology 101, 102, 103.

Collection, preservation, and identification of local species of fishes and fish-like vertebrates, with primary emphasis on fresh water forms. Field work when possible.

G-370—**Applied Bacteriology.** Four hours. (445)

Prerequisites: Biology 101, 102, 103, organic chemistry, and at least one previous course in bacteriology.

G-401—**Genetics.** Four hours. (440)

Prerequisites: Biology 101, 102, 103.

A study of fundamental problems of inheritance and the cytological mechanics of heredity. The student will be required to make periodic reports on current literature in the field of genetics.

G-402—**Modern Genetics for Secondary School Teachers.** Four hours.

A survey of the basic principles of heredity with special emphasis on recent discoveries in this very rapidly developing and highly significant area of biology. Secondary School Teachers of biology who have been out of college for only a few years have a great need for up-dating their knowledge and understanding of modern genetics.

G-404—**Physiology of Bacteria.** Four hours. (451)

Prerequisite: General Bacteriology.

Four hours lecture, no laboratory.

Composition and growth of bacteria. Nutrition, fermentation mechanism and enzymes.

G-405—**Public Health Bacteriology.** Four hours. (456)

Two hours lecture and four hours laboratory.

A consideration of the major groups of organisms. Schemes for isolation and identification.

G-406—**Virology.** Four hours. (462)

Prerequisite: 12 hours of Bacteriology.

Four hours lecture and no laboratory.

A consideration of these parasites of bacterial cells, plant and animal cells.

G-407—**Foods Bacteriology.** Four hours. (163)

Two hours lecture and four hours laboratory.

Prerequisite: Advanced standing in bacteriology.

A study of quality control as necessitated by various groups imparting undesirable flavors, texture, etc. Laboratory devoted to standard techniques.

G-408—**Medical Mycology.** Four hours.

Two hours lecture and four hours laboratory.

Prerequisite: Introductory Mycology.

Consideration of the fungi of medical significance. Laboratory devoted to cultivation and identification.

G-409—**Introductory Phycology.** Four hours. (175)

Two hours lecture and four laboratory.

Prerequisites: Botany 104 or General Bacteriology.

Consideration of the algae, nature, position, classification, and importance. Laboratory devoted to general procedures of cultivation, identification, and morphology.

G-410—**Introductory Morphology of Plants.** Four hours. (176)

Three hours lecture and two hours laboratory.

Prerequisite: Advanced standing in botany.

Form and relationship primarily of vascular plants. Laboratory devoted to study of extant and fossil forms.

G-411—**Plant Ecology.** Four hours. (178)

Prerequisite: Advanced standing in botany.

Relationship of plants to their environment.

G-412—**Plant Physiology I.** Four hours. (193)

Two theory and two laboratory periods per week.

Prerequisite: General botany (Botany 104 or its equivalent). General and organic chemistry recommended.

Designed to acquaint the student with basic physiological processes of green plants. Extensive use of the greenhouse in laboratory work.

G-413—**Plant Physiology II.** Four hours. (194)

A continuation of Biology 412.

G-414—**Cellular Physiology I.** Four hours.

Two hours lecture per week plus one four-hour lab per week.

Prerequisites: 12 hours of biology, 12 hours of Inorganic Chemistry and either 8 hours of Organic Chemistry or 8 hours of Analytical Chemistry, plus 8 hours of Mathematics.

A functional study of the inorganic, organic, and physical aspects of living organisms with emphasis on the cell.

G-415—**Cellular Physiology II.** Four hours.

Prerequisites: Biology G-414.

A continuation of Biology G-414, Cellular Physiology I.

G-418—**Field Zoology: Macroscopic Invertebrates.** Four hours.

One hour lecture and six hours laboratory per week.

Prerequisite: Biology 101, 102, 103.

Collection, preservation, identification and general biology of local, macroscopic, marine, fresh-water and terrestrial invertebrates. Field work as needed.

G-419—**Field Zoology: Microscopic Invertebrates.** Four hours.

One hour lecture and six hours laboratory per week.

Prerequisite: Biology 101, 102, 103.

Collection, preservation, identification, and general biology of local, microscopic, marine, fresh-water and terrestrial invertebrates. Field work as needed.

G-426—**Speciation.** Two hours.

Prerequisite: Biology 401

A study of the contributions of the various fields of Biology to the modern concepts of phylogeny and the origin of the species.

G-427—**Biogeography.** Two hours.

A descriptive and analytical study of the distribution of plants and animals.

G-481, G-482, G-483—**Ecology.** Twelve hours. (495, 496, 497)

Prerequisites: An acceptable background in biology, chemistry, and physics.

Two theory periods and two 2-hour laboratory periods per week.

An intensive advanced study of the relationship between organisms and their environment.

G-484—**Limnology.** Four hours. (498)

Prerequisites: Biology 101, 102, 103, Biology G-300, G-481, and G-482 strongly recommended.

A study of the physical, chemical, and biological conditions in lakes, ponds, and streams. Lectures, laboratories, and field trips. Spring quarter.

G-485—**History of Biology.** Four hours. (499)

Lectures and readings concerning the development and organization of biological sciences. The devlopment of biological principles and theories will be emphasized. For seniors and graduate students only.

G-488—**Marine Zoology for Teachers.** Six hours.

Prerequisite: 12 quarter hours of Biology. This course is given at the Gulf Coast Research Laboratory. This course does not constitute credit toward a major or minor in the department.

This course is designed to provide teachers of the biological sciences in the elementary and secondary schools with an opportunity to become acquainted with marine life in the Gulf of Mexico. Field trips to many animal habitats will be made. Trips to shrimping grounds, oyster reefs, and sea food processing plants will be made. Each student will have an opportunity to make teaching collections of marine organisms.

G-489—**Cytogenetics.** Four hours. (189)

Two hours lecture and four hours laboratory.

Prerequisite: Advanced standing in biology, general genetics.

Relationships between cytological and genetic systems.

501—**Plant Physiology for High School Teachers.** Four hours.

This course will consist of lectures and coordinated laboratory experiments introducing some of the factors influencing germination, growth, mineral uptake, water relationships, photosynthesis, translocation, and the action of selected enzymes and harmones. A limited number of biochemical transormations will be studied or demonstrated through bacterial or fungal metabolic action.

502—**Philosophical Implications of Biology.** Four hours.

Implications of different interpretations of great biological theories.

503—**Taxonomy of the Flowering Plants for High School Teachers.** Four hours.

Morphology, collection, and classification of local Bymnosperm and Angiosperms, with discussions of taxonomic principles. The laboratory will be devoted to the examination of illustrative material and identification of personal collections.

504—**Invertebrate Zoology for High School Teachers.** Four hours.

Prerequisite: Twelve hours of biology.

A course in invertebrate zoology especially designed for public school teachers to broaden and strengthen their understanding of the variety of structural and physiological methods used by specific forms to meet sucessfully the demands for survival.

505—**Basic Principles of Entomology for High School Teachers.** Four hours.

Two hours lecture and six hours laboratory per week.

This course is especially designed for teachers of biological sciences in the public school system, who have failed to receive adequate training in entomology. It will be the aim in this course to not only familiarize the students with the common types of insects in this area but to teach them to fully utilize this large and extremely varied group of animals, which can be obtained at a very slight cost to the local schools in the teaching of high school biology.

507—**Advanced General Botany for High School Teachers.** Four hours.

Six hours laboratory per week including field trips and two hours lecture.

This is a comprehensive course dealing with the basic principles of botany and a survey of the flowering plants.

508—**Utilization of Local Fauna and Flora in the Teaching of High School Biology.** Four hours.

A course designed to aid high school teachers in the utilization of local materials, to equip them with essential techniques for utilizing these materials in the teaching of high school biology.

509—**Microbiology for Secondary School Teachers—Bacteria and Fungi.** Four hours.

Two hours lecture and six hours laboratory per week.

A study of the basic morphology and physiology of the bacteria and fungi. The significance of these forms in nature and to man will be emphasized. Taxonomy of selected groups will be included in this course. Laboratory work will be devoted to the techniques of isolation, cultivation, and study adapted to the small laboratory.

510—**Principles of Parasitology for Secocndary School Teachers.** Four hours.

A basic course in Parasitology designed to acquaint the teacher with protozoan and helminth parasites occuring in local animals, including man. Techniques for collecting and preserving parasites will be demonstrated. Demonstration slides will be utilized to illustrate representative parasites with a thorough coverage of internal anatomy, life cycle, epidemiology, and generalized pathology of the host.

511—**Vertebrate Biology for High School Teachers.** Four hours.

This course will include studies on the morphology, taxonomy and identification of fish, amphibians, reptiles, birds, and mammals, with emphasis on local forms. Basic principles of natural history, distribution and the ecology of vertebrates will be considered.

515—**Biological Oceanography.** Four hours.

Two hours lecture and four hours laboratory per week.

Prerequisite: Biology 482 or G-482.

A consideration of the sea as a biological environment, of the organisms which inhabit the sea, and of the interrelationships existing between marine organisms and the physical, chemical, and biological aspects of their environment. (Three all day Saturday field trips.)

541—**Marine Fisheries Biology.** Six hours.

Prerequisites: 12 semester hours in zoology, and one year of college mathematics.

An introduction to the general principles of the subject including the simpler statistical procedures, collection of production statistics, and a general review of the world fisheries with special emphasis on the United States.

592—**I, II, III, IV. Special Problems in Biology.** Two to eight hours. (500)

Prerequisite: A thorough background in biology.

Individuals will be assigned some specific problem in biology to investigate under faculty direction. Credit will be determined by the quality and quantity of work done varying from 2 to a maximum of 8 hours.

594—**I, II, III. Biology Seminar.** One to three hours (501)

The presentation and defense of current, classical concepts and principles of biology.

598—**Thesis.** Six hours. (514B)

DEPARTMENT OF CHEMISTRY

Charles E. Lane, Jr., Chairman

Brent Newsom Payne

The Department of Chemistry participates in programs leading to the Master of Arts, Master of Science, and Master of Education degrees. For all master's degrees a minimum of 46 graduate hours is required, 24 of which must be in courses numbered above 500.

For the Master of Arts degree the language, minor, and courses will be selected by the student in consultation with the department chairman and the major professor. The following chemistry courses will not be accepted for the Master of Arts degree: 571, 572, 573, 574, 575.

For the Master of Science degree, the student may elect a minor in any field approved by the department. Included in this category are the programs in combined science and the teaching of chemical sciences. The courses will be chosen with the advice of the department chairman.

For the Master of Education degree in Secondary Education, the student electing chemistry as a subject-matter area must take a minimum of 24 hours in graduate chemistry courses.

COURSE DESCRIPTIONS

G-401—**Physical Chemistry.** Four hours. (481)

Three theory periods and one three-hour laboratory period per week.

Prerequisites: Chemistry 203 and Integral Calculus.

A mathematical treatment of the laws governing chemical and physical changes. A study of the fundamental principles of chemistry and physics in their relation to each other.

G-402—**Physical Chemistry.** Four hours. (482)

Three theory periods and one three-hour laboratory period per week.

Prerequisite: Chemistry G-401.

Continuation of Chemistry G-401.

G-403—**Physical Chemistry.** Four hours. (483)

Three theory periods and one three-hour laboratory period per week.

Prerequisite: Chemistry G-402.

Continuation of Chemistry G-402.

G-404—**Chemical Literature.** One hour. (401)

One lecture per week.

Prerequisite: Permission of the instructor.

The selection and use of the reference materials of chemistry: periodicals, journals, texts, patents, and other sources of information.

G-405—**Advanced Quantitative Analysis.** Five hours. (455)

Two hours lecture and nine hours laboratory or library per week.

Prerequisites: Chemistry 203 and Chemistry 303.

Offered on demand.

A course in the analysis of minerals, alloys, and organic substances, with emphasis on methods taken from recent literature and applied to analytical problems.

G-406—**Qualitative Organic Analysis.** Five hours. (457)

Two hours lecture and eight hours laboratory per week.

Prerequisites: Chemistry 203 and 303.

G-431—**Physical Chemistry for High School Teachers.** Four hours.

Three theory periods and one two-hour laboratory period per week.

Prerequisite: Chmistry 203, Physics 103 or 203.

A course in the principles of chemistry, such as the properties of gaseous, liquid, and solid states of matter; kinetics; equilibrium; electrochemistry; etc.

This course is for teachers only.

G-432—**Physical Chemistry for High School Teachers.** Four hours.

Three theory periods and one two-hour laboratory period per week.

Prerequisite: Chemistry G-431.

A continuation of G-431.

G-433—**Physical Chemistry for High School Teachers.** Four hours.

Three theory periods and one two-hour laboratory period per week.

Prerequisite: Chemistry G-432.

A continuation of G-432.

G-425—**Survey of Biochemistry.** Five hours.

Three hours lecture and four hours laboratory per week.

Prerequisite: Chemistry 303.

A survey of biochemistry.

501—**Advanced Inorganic Chemistry.** Four hours. (531)

Four hours lecture per week.

A study of complex ions, chemical activity and the lesser known elements.

502—**Advanced Inorganic Chemistry.** Four hours. (532)

Four hours lecture per week.

Prerequisite: Chemistry 501.

A continuation of Chemistry 501 with special interest on structure and bonding.

503—**Inorganic Preparations.** Two to four hours. (535)

One lecture and 4 to 12 hours laboratory per week.

Prerequisite: Permission of Instructor.

Hours credit depend upon the number of preparations assigned.

504—**Advanced Organic Chemistry.** Four hours. (541)

Four hours lecture per week.

Prerequisite: Chemistry 303.

A study of the physical aspects of organic compounds and the mechanisms of homogeneous organic reactions.

505—**Advanced Organic Chemistry.** Four hours. (542)

Four hours lecture per week.

Prerequisite: Chemistry 504.

A study of organic reactions of synthetic value with emphasis in the areas of aromatization, active methylene compounds, conjugate addition, organometallic and organophosphorus compounds, ring closures, and the use of metal hydrides in organic reations.

506—**Organic Preparations.** Two to four hours. (545)

One lecture and 4 to 12 hours laboratory per week.

Prerequisite: Permission of Instructor.

Hours credit to depend upon number of preparations assigned.

507—**Quantitative Organic Analysis.** Four hours. (555)

One lecture and 12 laboratory hours per week.

Prerequisite: Chemistry 303.

Emphasis on laboratory techniques for the quantitative analysis of organic materials utilizing micro and semi-micro quantities.

508—**Advanced Organic Chemistry.** Four hours.

Four hours lecture per week.

Prerequisite: Chemistry 505.

A continuation of Chemistry 505.

577—**Radioactivity and Civil Defense.** One hour. (553)

Prerequisite: Permission of Instructor.

594—**Special Projects I, II, III, Seminar.** One hour credit. (590)

596—**Research, Organic, I, II, III.** One or two hours. (595)

Prerequisite: Permission of Instructor.

597—**Research, Physical or Inorganic, I, II, III.** One or two hours. (596)

Prerequisite: Permission of Instructor.

601—**Advanced Physical Chemistry.** Four hours. (581)

Four hours lecture per week.

Prerequisite: Chemistry 403.

602—**Advanced Physical Chemistry.** Four hours. (582)

Four hours lecture per week.
Prrequisite: Chemistry 601.

A continuation of Chemistry 601.

603—**Spectroscopy.** Four hours. (571)

Two hours lecture, four hours laboratory per week.

A study of emission and absorption spectra as applied to the determination of functional groups, control reactions, and chemical analysis.

604—**Spectroscopy.** Four hours. (572)

Two hours lecture, four hours laboratory per week.

A study of emission and absorption spectra as applied to the determination of functional groups, control reactions, and chemical analysis.

A continuation of Chemistry 603.

694—**Special Projects, Seminar I, II, III.** 1 hour. (590)

696—**Research, Organic, I, II, III.** 1 to 3 hours. (595)

697—**Research, Physical, I, II, III.** 1 to 3 hours. (596)

698—**Research, Analytical, I, II, III.** 1 to 3 hours. (597)

DEPARTMENT OF ENGLISH AND LITERATURE

Charles Moorman, Chairman

Allen
Bahr
Orange
Blackstock
Webb

The Department of English and Literature participates in programs leading to the Master of Arts, Master of Science, and Master of Education degrees. For all Master's degrees, 46 quarter hours of graduate courses are required, 24 quarter hours of which must be in courses numbered above 500.

For the Master of Arts degree, the student must take 16 graduate hours in an academic minor field approved by the department, demonstrate proficiency in a foreign language (by examination or by presentation of sufficient undergraduate credit), and write a thesis.

For the Master of Science degree, the student may elect a minor in any field, including education, approved by the department. In order to fulfill the professional requirements for the education minor leading to the Class AA teacher's certificate, the student should take Education 501, Education 504, 4 hours from Education 507 and 510, and a 4 hour elective in education to total 16 hours. There is no language requirement for the Master of Science degree, and the writing of a thesis is optional.

For the Master of Education degree in Secondary Education, the student electing English as a subject-matter area must take a minimum of 24 quarter hours in Graduate English courses.

COURSE DESCRIPTIONS

G-408—**The Structure of Modern English.** Four hours. (408)

A review of English syntax and a study of functional pressures upon the conventional forms of English grammar.

G-410—**Colonial and Revolutionary American Literature. 1640-1820.** Four hours. (410)

The principles of Puritanism as revealed in the writings of the Mathers and Jonathan Edwards, and the principles of American Democracy as revealed in the writings of Benjamin Franklin, Thomas Paine, Thomas Jefferson, Alexander Hamilton, and Philip Freneau.

G-414—**The American Literary Renaissance, 1820-1870.** Four hours. (414)

The beginnings of a truly American literary tradition in the essays and sketches of Irving, Emerson, and Thoreau; the novels of Hawthorne, Cooper, and Melville; and the poetry of Bryant, Poe, and Whitman.

G-416—**The Rise of Realism in American Literature, 1870-1920.** Four hours. (416)

The movement, under the impact of the Industrial Revolution, from a "romantic" to a "realistic" view of life, as evidenced by the novels of Twain, Howells, James, and Dreiser, and by the poetry of Emily Dickinson, Robinson, and Masters.

G-418—**American Literature Between the World Wars, 1920-1940.** Four hours. (418)

Tendencies and movements in modern American literature reflected by the novels of Sinclair Lewis, Hemingway, and Faulkner; by the plays of Eugene O'Neill; and by the poetry of Frost and Eliot.

G-423—**Shakespeare's Comedies.** Four hours .(423)

A critical study of a selected group of Shakespeare's comedies and tragi-comedies.

G-425—**Shakespeare's Tragedies.** Four hours. (425)

A critical study of a selected group of Shakespeare's history plays and tragedies.

G-427—**The English Novel.** Four hours. (427)

A study of the English novel from its beginning to the twentieth century.

G-430, G-431, G-432—**Tutorial in Comparative Literature.** Twelve hours. 4-4-4. (430-431-432)

G-435, G-436—**Nineteenth-Century Poetry and Prose.** Eight hours. 4-4, (435-436)

Intensive study of the writings of selected major figures of the Romantic and Victorian ages.

G-444—**Readings from World Literature.** Four hours. (444)

Careful and critical reading of selected masterpieces from world literature.

G-445—**Literary Criticism.** Four hours. (445)

A survey of the history of literary criticism from the Greeks to the present with special emphasis upon the critical issues raised by Aristotle, Coleridge, and the New Criticism.

G-447—**Major Writers of the Eighteenth Century.** Four hours. (447)

An intensive study of the form and contents of the works of Dryden, Swift, Pope, and Johnson.

G-451—**Restoration and Eighteenth-Century Drama.** Four hours.

An intensive study of the drama of the Restoration and Eighteenth-Century.

G-473—**Analysis of Poetry.** Four hours. (473)

A study of the techniques of poetry interpretation for the purpose of developing critical insight.

G-474—**The Modern European Novel.** Four hours. (474)

A study of the more important English and continental European novelists of the twentieth century with emphasis upon analysis and critical evaluation.

G-479—**Development of English Drama.** Four hours. (479)

A study of representative plays from the origin of English drama to the beginning of the modern period, excluding Shakespeare. Emphasis is placed upon the development of the drama in its various types.

G-480—**Modern Poetry.** Four hours. (480)

A study of the more important American and English poets of the late nineteenth and early twentieth centuries, with emphasis upon analysis and critical evaluation.

G-483—**Modern Drama.** Four hours. (483)

A study of European and American drama of the late nineteenth and early twentieth centuries.

G-485—**Literature of the South.** Four hours. (485)

A historical and critical survey of Southern Literature from its beginning to the present.

G-486—**Seventeenth-Century Prose and Poetry.** Four hours. (486)

An examination of representative selections from the major English writers, excluding Milton, from Donne to Dryden.

G-487—**Milton.** Four hours. (487)

A careful study of the principal writings of Milton, including Paradise Lost, some of the minor poems, and selections from the prose.

G-488—**Chaucer.** Four hours. (488)

An introduction to the language and art of Chaucer, with particular attention to the Canterbury Tales and Troilus and Criseyde.

G-489—**Literature and the Arts.** Four hours. (490)

Prerequisite: At least one English course numbered 400 or above in a previous quarter, or consent of the instructor.

The applications of general aesthetics, with particular emphasis on the interrelation of literature and the other arts: music, painting, sculpture, architecture, drama.

500—**Bibliography and Methods of Research in English.** Four hours.

Required of all beginning graduate students in English.

502—**Anglo-Saxon.** Four hours.

An introduction to Old English language and literature, with some attention to the developmet of Modern English. A substantial selection of Anglo-Saxon poetry and prose, including portions of Beowulf will be read.

503—**The Development of Modern English.** Four hours.

505—**Seminar in American Literature.** Four hours.

508—**Seminar in Renaissance Literature.** Four hours.

510—**Seminar in Eighteenth-Century Literature.** Four hours.

511—**Seminar in Nineteenth-Century Literature.** Four hours.

513—**Seminar in Medieval Literature.** Four hours.

515—**Seminar in Twentieth-Century Literature.** Four hours.

580—**Tutorial in English and Germanic Philology.** Four hours.

598—**Thesis.** Six hours.

DEPARTMENT OF FOREIGN LANGUAGES

Chisholm
Gargiulo Johnson Morrow Neumann Scheel

The Department of Foreign Languages participates in the program leading to the Master of Arts degree in French, German, and Spanish. As a prerequisite, the student must present the equivalent of an undergraduate major in the foreign language in which he plans to major on the graduate level. If the undergraduate major does not include 405, 406, 407, or the equivalent, he must include G-405, G-406, G-407 in this graduate program. The student may elect either of the two following plans of study:

1. Master of Arts degree with a thesis:

A minimum of 46 hours of graduate courses is required, half of which must be in courses numbered above 500. The student must take 30 graduate hours (including the thesis) in the major language and 16 graduate hours in an academic minor field approved by his major professor and the department chairman. The department strongly recommends a second foreign language as his minor; however, if the student does not elect another foreign language as his minor, he must demonstrate proficiency in a second foreign language, either by examination or by presentation of sufficient undergraduate credit.

2. Master of Science degree:

This degree is for the student who does not intend to proceed to a more advanced degree. The plan of study is basically the same as the above plan, except that the student may substitute for the thesis eight additional graduate hours in the major language.

FRENCH (Fre)

G-405—**French Classicism.** Four hours.

Prerequisite: 307.

Representative writers of seventeenth century French literature.

G-406—**French Romanticism.** Four hours.

Prerequisite: 307.

Representative writers of the first half of the nineteenth century; emphasis on essential differences between Romanticism and Classicism.

G-407—**French Realism and Naturalism.** Four hours.

Prerequisite: 307.

Significant characteristics of Realism and Naturalism; emphasis on outstanding French works of the latter half of the nineteenth century.

G-421—**French Literature of the Twentieth Century.** Four hours.

Prerequisite: 307.

G-492—**Advanced Readings in French.** Four hours.

Prerequisite: 307.

May be repeated for credit when topics vary.

521—**Corneille.** Four hours.

A careful study of the development of French tragedy through an analysis of the major works of Corneille.

522—**Racine.** Four hours.

Analysis and discussion of the major classical tragedies of Racine.

523—**Moliere.** Four hours.

Development of the comedy and analysis and discussion of the major works of Moliere.

531—**The Age of Enlightenment.** Four hours.

The growth of French rationalism. Analysis and discussion of Bayle, Fontenelle, Montesquieu, Voltaire, Rousseau, and Diderot.

541—**The Romantic Poets.** Four hours.

Emphasis on major poems of Lamartine, Hugo, Musset, and Vigny.

542—**Nineteenth Century Novel.** Four hours.

Emphasis on Balzac, Stendhal, Merimee, Flaubert, and Zola.

598—**Thesis.** Six hours.

GERMAN (Ger)

G-405—**German Classicism.** Four hours.

Prerequisite: 307.

G-406—**German Romanticism.** Four hours.

Prerequisite: 307.

G-407—**German Realism and Naturalism.** Four hours.

Prerequisite: 307.

G-421—**Contemporary German Literature.** Four hours.

Prerequisite: 307.

G-492—**Advanced Readings in German.** Four hours.

Prerequisite: 307.

May be repeated for credit when topics vary.

521—**Goethe and Schiller in their Weimar Periods.** Four hours.

A careful study of their most important classical works.

522—**Gothe's FAUST.** Four hours.

523—**German Drama after Goethe.** Four hours.

A study of nineteenth and twentieth century drama, with emphasis on Kleist, Grillparzer, Buchner, Wagner, Hauptmann, Wederkind, and Brecht.

531—**German Poetry from Holderlin to the Present.** Four hours.

An analysis of various styles of nineteen and twentieth century poetry.

541—**The German NOVELLE in the nineteenth and twentieth centuries.** Four hours.

Emphasis on Kleist, Buchner, Moricke, Keller, Hauptmann, Kafka, and Mann.

551—**German Expressionism.** Four hours.

Representative writings of Kaiser, Barlach, Werfel, Kafka, and Kokoschka.

598—**Thesis.** Six hours.

SPANISH (Spa)

G-405—**The Golden Age.** Four hours.

Prerequisite: 307.

G-406—**Eighteenth and nineteenth century literature of the Spanish-speaking World.** Four hours.

Prerequisite: 307.

G-407—**The Generation of 98 and Contemporary Literature of the Spanish-speaking World** Four hours.

Prerequisite: 307.

G-421—**Cervantes and the Renaissance.** Four hours

Prerequisite: 307.

G-492—**Advanced Readings in Spanish.** Four hours.

Prerequisite: 307.

522—**Spanish Theater of the Golden Age.** Four hours.

A study of the theater from Lope de Vega to Moreto, with an analysis of several comedies.

525—**El Quixote.** Four hours.

The reading and interpretation of this work and a study of the Spanish literary development in relation to the social and political situation.

541—**Spanish Poetry and Drama of the Nineteenth Century.** Four hours.

An analysis of the literary trends and a study of the outstanding figures in the fields of poetry and drama in this century.

545—**Spanish American Poetry from the Beginning of the Romantic Period to the Present.** Four hours.

An analysis of the literary trends and a study of the poetic works of several outstanding poets, such as Heredia, Marti, Dario, Lugones, Vallejo, and Neruda.

551—**Modern and Contemporary Prose in Spain.** Four hours.

The historical novel, the novel of Realism and Naturalism in Spain in the nineteenth century. Costumbrismo. A study of the principal prosistas. The Generation of 1898. Post-war prose.

553—**Modern and Contemporary Prose in Spanish America.** Four hours.

A study of the principal currents and representative figures in the development of Spanish American Prose since the later part of the nineteenth century.

598—**Thesis.** Six hours.

DEPARTMENT OF GEOGRAPHY

Arthell Kelly, Chairman
Collier

G-310—**Geography of the United States and Canada.** Four hours. (410)

G-339—**Geography of Asia.** Four hours.

A regional study, with emphasis on India, China, Japan and Indonesia.

G-360—**Geographical Influences in American Development.** Four hours. (460)

G-437—**Geography of the U.S.S.R.** Four hours.

A regional survey of the physical, economic, and cultural geography of the U.S.S.R.

G-445—**Industrial and Commercial Geography.** Four hours. (445)

Includes a short survey of geographic principles governing primary, secondary, and tertiary production.

G-480—**Climatology.** Four hours. (480)

A detailed study of types of world climates. Reference made to distribution of patterns of vegetation, soil, and population resulting from climates.

G-484—**Urban Geography.** Four hours. (484)

G-494—**Tour of Geographical Places, I, II.** 1½ hours each.

Prerequisite: Consent of the instructor. May be taken only once for credit toward a Master's degree.

A three or four week conducted tour of places of Geographical interest varied from year to year. Conducted by a regular faculty member with prepared lectures and study materials.

500—**Seminar in Regional Geography.** Four hours.

Research in the field of regional geography.

504—**Economic and Commercial Geography.** (Primary and secondary production) Four hours.

508—**Economic and Commercial Geography.** (Tertiary production). Four hours.

571—**Seminar in Political Geography.** Four hours.

Research in the field of political geography.

606—**History and Development of Geographic Thought.** Four hours.

DEPARTMENT OF GEOLOGY

William J. Huff, Chairman

Brown Le Mone Welby

The Department of Geology participates in programs leading to the Master of Arts, Master of Science, and the Master of Education degrees. For all Master's degrees, a minimum of 46 graduate hours is required, 24 of which must be in courses numbered above 500.

For the Master of Arts degree, the student must take 16 graduate hours in an allied field (physics, mathematics, biology, or chemisty) approved by the department and demonstrate a reading knowledge of either German, French, or Russian. A thesis involving a field problem is required for the Master of Arts degree.

For the Master of Science degree, the student must elect a minor of 16 graduate hours in either physics, mathematics, biology, or chemistry. A thesis involving a field problem is required. In certain cases the language requirement may be waived at the discretion of the departmental chairman, but usually will be strongly recommended.

For the Master of Education degree in Secondary Education, the student electing geology as a subject-matter area must take a minimum of 24 hours in graduate geology courses, and have met the prerequisites for these courses.

COURSE DESCRIPTIONS

G-402—**Stratigraphy of North America.** Four hours. (438)

Prerequisite: Geology 401

A study of rocks ranging from the Precambrian through the Paleozoic. Taught winter quarter.

G-403—**Stratigraphy of North America.** Four hours. (439)

Prerequisite: Geology 401

A study of rocks of Mesozoic and Cenozoic age. Taught spring quarter.

G-415—**Principles of Geology for High School Science Teachers.** Four hours.

Three hours lecture and four hours laboratory.

Prerequisite: Bachelor's degree in science, or its equivalent.

Designed to familiarize the teacher with the common rocks and minerals together with the fossils found in the outcrops of Mississippi and neighboring states. Lectures and laboratories will be equally divided between physical and historical phases of geology. Fossils will be collected on field trips to supplement those in the laboratory.

G-420—**Sedimentology.** Four hours.

Two lectures and four hours laboratory each week.

Prerequisite: Geology 101, 103, and 260.

A concentrated study of weathering, transportation, deposition, and lithification of sedimentary materials. Regional and local sediments investigated, classified, and mechanically treated with laboratory apparatus. Microscopic analysis of selected samples. Taught spring quarter.

G-422—**Petroleum Geology.** Four hours. (422)

Three hours lecture and two hours laboratory each week.

Prerequisite: Geology 303, 310, 314, and 330.

The origin, occurrence, migration and accumulation of oil and gas.

G-445—**Economic Geology.** Four hours.

Two hours lecture and four hours laboratory each week.

Prerequisite: Geology 310, 314, and 330.

Principles of ore deposits. Introduction to fuels and non-metallic mineral deposits. Practice in oral and written technical reporting.

G-452—**Physical Marine Geology.** 1½ hours per week. Not to exceed six weeks or nine quarter hours. Gulf Coast Research Laboratory.

Prerequisite: Geology 103, 310, and 420.

A general introduction to the physical processes at work on the shores of the Mississippi Sound with emphasis on the erosional and depositional effects of waves and currents at different stages of tide. Several beaches will be periodically surveyed to measure changes in shape, height, and sand-size distribution and to observe growth and destruction of bars, cusps, spits, and tidepools. A spit near the laboratory will be studied in detail at low tide to determine changes in height, cross-section and lateral shift.

G-453—**Chemical Marine Geology.** Gulf Coast Research Laboratory. 1½ hours per resident week, not to exceed six weeks, or nine quarter hours.

Prerequisite: Geology 103, 310, 420, and Chemistry 201 and 203.

Supervised research in the chemistry of the waters of Mississippi Sound and the geochemistry of the bottoms beneath those waters. Rapid vertical and tidal changes in water composition on successive days. Analyses will also be made of cored samples taken from bottoms of shrimp muds, tidal channels and sandy shelves.

G-454—**Problems in Marine Sedimentation.** Gulf Coast Research Laboratory. 1½ hours per resident week, not to exceed six weeks or nine quarter hours.

Prerequisite: Permission of the instructor.

Supervised study of selected aspects of marine sedimentation along the Gulf Coast.

G-461—**Petrography.** Four hours. (461)

Two hours lecture and four hours laboratory each week.

Prerequisite: Geology 311 and 314 (Physics 341 for graduate credit).

Systematic study of rocks by means of the polarizing microscope. Taught spring quarter.

G-468—**Micropaleontology.** Four hours. (468)

One hour lecture and six hours laboratory each week.

Prerequisite: Geology 302 and 303.

Taxonomy, morphology, and stratigraphic use of microfossils. Emphasis on foraminifera from formations of the Tertiary System of the Gulf Coastal Region. Taught fall quarter.

G-469—**Micropaleontology.** Four hours.

One hour lecture and six hours laboratory.

Prerequisite: Geology 302 and 303.

Taxonomy, morpholoy, and stratigraphic use of microfossils. Emphasis on Ostracoda from formations of the Tertiary System of the Gulf Coastal Region. Taught winter quarter.

G-471—**Paleobotany.** Four hours.

Four lectures per week.

Prerequisite: Geology 101, 103, and permission of the instructor.

Biology 104 or Biology 311, 312, 319 strongly recommended.

Morphology and developmental history of plants found as fossils. Paleobotanical findings with respect to extant plants.

G-472—**Advanced Paleobotany.** Four hours.

Two lectures and four hours laboratory per week.

Prerequisite: Geology 470, or permission of the instructor.

Selected taxonomic and morphologic problems of the phylogenetic history of the plant kingdom. Preparation of polished sections, thin sections, and acetate peels of plants and microfossils.

G-473—**Palynology.** Four hours.

One lecture and six hours laboratory per week.

Prerequisite: Geology 471 or permission of the instructor.

Study of application of fossil spores and pollens to selected problems in geology and botany. Extraction, mounting, and examination of samples from extant plants, peats, soils, clays, coals, crude oils, shales, sandstones, and carbonates.

511—**Pleistocene Geology.** Four hours.

Lectures, reference assignments and discussions.

Prerequisite: Geology 401 and permission of instructor

Development of the Glacial theory. Direct and indirect efforts of Glaciation. Implications for the future.

512—**Engineering Geology.** Four hours.

Two hours lecture, solution of problems, oral and written reports, and field trips.

Prerequisite: Mathematics 375.

Study of earth processes, forces, and materials as they relate to engineering practice; the role of the engineering geologist in various types of engineering projects; application of geophysics, geochemistry, and photogeology to engineering practice; selection and behavior of natural materials in enineering activities; selected aspects of hydrology as they concern engineering projects.

514—**Geology of Groundwater.** Four hours.

Two hours lecture, solution of problems, oral and written reports, and field trips.

Prerequisite: Geology 401.

A study of the qualitative and quantitative aspects of groundwater as they relate to geologic factors. Groundwater is also considered as an important agent in processes affecting ore deposits, diagenesis, localization of petroleum, and geomorphology.

530—**Advanced Structural Geology.** Four hours.

Two hours lecture and four hours laboratory.

Prerequisite: Geology 330

Theoretical analysis of rock deformation on regional scale. Emphasis is given to tectogenesis, epeirogensis, and diastrophism.

569—**Gulf Coast Stratigraphy.** Four hours.

Lectures, reference assignments, field trips, laboratory study and discussions.

Prerequisite: Geology 401.

A study of the sediments and stratigraphic problems of the Gulf Costal Region. Emphasis on formations of the Tertiary System of Texas, Arkansas, Louisiana, Mississippi, and Alabama.

570—**Special Problems in Paleobotany**

Prerequisite: G-471 or 473 and permission of instructor.

Directed fundamental or applied research problems in the fields of classical Paleobotany and Palynology open only to graduate students.

591—**Seminar.** Two hours.

Only two seminar hours credit allowed toward the Master's program.

598—**Thesis.** Six hours.

DEPARTMENT OF HISTORY

J. Treadwell Davis, Chairman

Brent DeRosier Fike Gonzales McCarty

The Department of History participates in programs leading to the Master of Arts and Master of Science degrees. The general requirements for these degrees are outlined elsewhere in this catalog.

A students are rquired to take History 500 (which should be taken during the first quarter of work if offered), and History 502. For the Master of Arts degree a thesis (Histoy 598) which counts as six hours is required. For both the Master of Arts and the Master of Science degrees at least fifty percent of a student's graduate program must be in courses numbered 500 or above. For all graduate work, sixteen hours must be taken in some minor field worked out between the student and his adviser.

Candidates for the Master of Arts degree will be required to take in addition a comprehensive oral examination. Candidates for the Master of Science degree will be required to take comprehensive written and oral examinations. For the purposes of the comprehensive examination, history is divided into the following ten fields:

(1) U. S. History to 1763
(2) U. S. History 1763-1848
(3) U. S. History 1848-1900
(4) U. S. in the 20th Century
(5) Ancient and Medieval
(6) Renaissance to 1789
(7) Europe 1789-1870
(8) Europe 1870-Present
(9) Latin America
(10) Some specialized field with departmental consent. This could include, The Far East, The Middle East, Africa, etc.

The Master of Arts candidate must demonstrate proficiency in the field of his thesis plus one field of U. S. History and non-U. S. History field. The Master of Science candidate must demonstrate proficiency in two fields of U. S. History and two non-U. S. History fields.

Comprehensive examinations will be given at stated times throughout the school year (usually during the seventh week of a quarter), but in all circumstances comprehensive examinations must be arranged at a time when the candidate's major professor is teaching.

The student is held responsible for following all graduate regulations regarding (1) the Graduate Record Examination, (2) filing an application for candidacy for the degree desired, and (3) filing application for the degree. The student's major professor will help in any way possible, but the student is expected to know what is required and to take full responsibility. The procedure is explained fully in the general section of this catalog dealing with degree requirements.

COURSE DESCRIPTIONS

Certain graduate courses taken in other departments will receive credit toward a major or a minor with the consent of the major professor. This provision applies to P.S 550.

HISTORY (HIST)

G-301—**Greek Culture.** Four hours. (460)

A study of the literature, art, politics, religion, and philosophy of the ancient Greeks. Emphasis on the Age of Pericles.

G-303—**Roman Culture.** Four hours. (462)

A study of the Roman Republic and the early Roman Empire, covering literature, religion, art, philosophy, jurisprudence, administration and political institutions—especially the last three.

G-305—**The Middle Ages.** Four hours. (464)

An advanced course in European history from the end of the western Roman Empire to the beginning of the Renaissance.

G-307—**Renaissance.** Four hours. (465)

An interpretive study of causes and main currents of the Renaissance, including humanism, literature, and the arts.

G-309—**Reformation.** Four hours. (466)

A thorough study of the Reformation and Counter-Reformation, including the effects to the present time.

G-311—**Europe, 1648-1789.** Four hours. (467)

A survey of the principal political, economic, social, and intellectual developments in Europe from 1648 to 1789.

G-313—**French Revolution and Napoleon, 1789-1815.** Four hours. (473)

A study of the forces and developments of the French Revolution in detail with emphasis upon those forces that affected Europe and the Western world.

G-315—**Europe, 1815-1870.** Four hours. (468)

An advanced study of the age of developing nationalism in Europe with special emphasis on political, social and economic philosophy.

G-317—**Europe, 1870-1918.** Four hours. (469)

A survey of the diplomatic and political conditions in Europe that led to the international rivalry which resulted in the first World War. The War itself is discussed in some detail.

G-319—**Europe, 1919-1939.** Four hours. (470)

The creation, deterioration and destruction of the European system as set up in the Treaty of Versailles. A survey of the European developments from 1919 to 1939.

G-321—**Europe Since 1939.** Four hours. (486)

Europe and the world from 1939 to the present.

G-351—**America, 1492-1763.** Four hours. (432)

A study of the settlement and growth of the British, French, and Spanish colonies in North America until the end of the French and Indian War. Major emphasis is placed on the political and economic development of these colonies.

G-353—**United States, 1763-1800.** Four hours. (433)

A study of the origins and course of the American Revolution, the successes and failures of the Confederation government, the Constitutional

Convention of 1787, and the Federalist era with special attention to Jefferson and Hamilton.

G-353—**United States, 1801-1848.** Four hours. (434)

A study of the growth of nationalism and democracy in the United States from 1801 to 1848.

G-355—**United States, 1801-1848.** Four hours. (434)

A study of the growth of nationalism and democracy in the United States from 1801 to 1848.

G-357—**Civil War and Reconstruction.** Four hours. (440)

An intensive study of the period from 1848 to 1877.

G-359—**United States, 1877-1920.** Four hours (443)

A study of the passing of the Frontier, the rise of new industry and the city, the new immigration, the Populist and Progressive movements, and the increasing participation of the United States in Asian, Latin-American, and European affairs.

G-361—**United States Since 1920.** Four hours. (442)

American history since 1920. Social, economic, and cultural development, and political events.

G-401—**Russia to 1917.** Four hours. (417)

Political, economic and cultural history of Imperial Russia from the Kievan period to the 1917 Revolution.

G-403—**Russia since 1917.** Four hours. (476)

A study of Soviet history and institutions from 1917 to the present, including Soviet foreign policy and objectives.

G-405—**The Cold War Issues.** Four hours. (411)

Analysis of Marxist objectives, strengths and weaknesses, and of the Communist strategy and tactics; and an analysis of the Free World's response to the foregoing. With permission of advisor, may be counted as Government.

G-411—**English Constitutional History.** Four hours. (490)

A study of the development of English political institutions from Anglo-Saxon times to the establishment of the British Commonwealth of Nations.

May be elected as government for a minor. Especially recommended for pre-law students.

G-413—**Western Intellectual History.** Four hours. (456)

A survey of western intellectual development outside the United States, from 1400 to the present. Includes humanism, growth of science, mercantilism, the Age of Reason, romanticism, liberalism, socialism, and nationalism.

G-415—**The Far East Since 1853.** Four hours. (472)

An historical study of Siberia, China, Japan, southeastern Asia, and the Pacific Islands. Diplomacy, cultural and economic developments, and nationalism.

G-417—**Middle East and Africa since 1800.** Four hours.

A cultural analysis of the Middle East and Africa, and the political evolution from imperialism to the emergence of national states.

G-440—**The British Commonwealth.** Four hours.

A study of British Colonial and Imperial expansion with special emphasis on its importance in world affairs.

G-451—**U. S. Intellectual and Social History to 1865.** Four hours. (451)

A study of the intellectual and social forces that have influenced American thought and action. Emphasis on such topics as the influence of racial stocks, and development of religion, literature, science, art, architecture, music, recreation, and political and economic thought.

G-453—**U. S. Intellectual and Social History Since 1865.** Four hours. (452)

A continuation of History 451.

G-455—**The Old South.** Four hours. (438)

A reading, research, and discussion course on the ante-bellum South. Special attention given to slavery, plantation life, and manners and customs,

G-457—**The New South.** Four hours. (441)

A study of the South since 1877. Covers social, economic, cultural, and political developments. Special attention to Bourbon rule, the Agrarian revolt and developments during the twentieth century: political, industrial, and educational.

G-465—**The Caribbean.** Four hours.

The study of an important, strategic area with emphasis on its historical positions in world-wide development.

G-467—**Argentina, Brazil, and Chile.** Four hours.

Historical background of these large nations in South America and their influence on other nations in South America and their world relationship.

G-469—**United States Constitutional History to 1861.** Four hours. (479)

An historical study of the development of American constitutional law, to 1861, largely based on cases.

May be elected as government for a minor. Especially recommended for pre-law students.

G-470—**United States Constitutional History since 1861.** Four hours.

An historical study of the development of American constitutional law since 1861, largely based on cases. A continuation of History G-469.

May be elected as government for a minor. Especially recommended for pre-law students. Not open to students who took History 179 or 479 prior to 1961 due to partial duplication of the courses.

G-473—**The West in United States History.** Four hours. (453)

An advanced study of characteristics of the frontier, and of the influence of the frontier on American life and culture.

G-475—**United States Foreign Relations to 1898.** Four hours. (428)

A survey of U.S. foreign policy from the Revolution to 1898. Emphasis on the Monroe Doctrine and problems of expansion.

G-477—**United States Foreign Relations since 1898.** Four hours. (429)

A continuation of History 475. Emphasis on imperialism, the World War, and U.S. relations with international organizations.

500—**Research Methods in History.** Four hours.

A seminar for beginning graduate students, emphasizing historical research and writing. Required of all graduate majors in the department. Should be taken during first quarter of work, if offered.

G-502—**Historiography.** Four hours.

A survey of the major historians and their works from Herodotus to the present. Lectures on bibliography by fields will be given by different members of the staff.

Required of graduate majors.

510—**European Diplomacy, 1870-1919.** Four hours. (562)

An intensive study of the strained relations which led to World War I, and of the immediate diplomatic aftermath of the war. Includes social, economic, and political background of the diplomacy.

512—**Seminar in Recent European and Asiatic History.** Four hours. (575)

Individual research in European and Asiatic developments since 1914.

527—**Seminar in American-Soviet Relations.** Four hours. (577)

An intensive study of American-Soviet diplomatic relations with emphasis on the period 1933 to the present. There will be individual research topics.

552—**Seminar in Southern History.** Four hours.

572—**Seminar in American Colonial and Revolutionary Period.** Four hours.

574—**Seminar in Nineteenth Century U. S.** Four hours.

576—**Seminar in Twentieth Century U. S.** Four hours.

592—**Special Problems I, II, III.** One hour each. (534 a,b,c)

A problem study to be approved by the department chairman, to develop knowledge and facility in a field of interest for the student. The student will prepare a scholarly paper under the supervision of a graduate professor.

598—**Thesis.** Six hours. (541B)

Preparation a Master's thesis, with the help of a member of the graduate faculty. Credit withheld until the thesis is completed.

DEPARTMENT OF MATHEMATICS

B. O. Van Hook, Chairman

Crocker Felder Nicholson Sanders Smith Webster Kelly

The Department of Mathematics participates in programs leading to the Master of Arts degree and the Master of Science degree with a major in mathematics. For all Master's degrees, a minimum of 46 quarter hours of graduate work is required, 24 quarter hours of which must be in courses numbered above 500.

For the Master of Arts degree, the student must take 16 graduate hours in an academic minor field approved by the department, demonstrate proficiency in a foreign language (by examination or by presentation of sufficient undergraduate credit), and write a thesis.

For the Master of Science degree, the student must take 16 graduate hours in any minor field approved by the department. Proficiency in a foreign language is not required for this degree. The writing of a thesis is optional with the student's advisory committee.

A Mathematics Seminar is conducted each quarter for graduate students in mathematics. Its purpose is to contribute to the student's mathematical development. Each graduate student in residence is required to attend the mathematics seminar each quarter. A maximum of six quarter hours credit may be earned for participation in the seminar.

A student must satisfy the undergraduate requirements for a major in mathematics before beginning a program leading to a Master's degree in mathematics. That is, the candidate's record must show credit for the calculus series and five acceptable courses beyond the calculus. The 46 hours required for a Master's degree will be in addition to the above prerequisite.

The three-quarter sequence in Advanced Calculus should be completed before beginning the programs leading to the Master of Arts or the Master of Science degree. If not, then it must be included as a part of the program approved by the student's advisor.

Graduate students in mathematics are required to pass an oral preliminary examination before being admitted to candidacy for a degree. The preliminary examination will cover fundamentals and will serve to identify the student's level of mathematical maturity. No student will be granted more than three attempts to pass the preliminary examination with at least a three-month interval between attempts. This examination will be administered not late than the fourth week of any quarter on a date arranged by the student with the student's advisor and the chairman of the Mathematics Department. A minimum of 20 quarter hours of graduate courses must be completed after the examination is passed.

Candidates for either the Master of Arts or the Master of Science degree will take an oral comprehensive examination not later than the eighth week of the last quarter of residence on a date arranged by the student with the student's advisor and the chairman of the Mathematics Department.

No student will be permitted to select a thesis topic until he has been admitted to candidacy for a Master's degree. The thesis in mathematics must conform to University regulations. Four copies of the candidate's thesis must be bound and distributed as follows: Two copies to the Dean of the Graduate School, one copy to the chairman of the Mathematics Department, and one copy to the student's major professor.

The offerings of the Mathematics Department are divided into the following five areas:

(1) Mathematical Analysis, G-405, G-415, G-421, G-431, G-441, G-442, G-443, 505, 531, 532, 533, 573, 631.

(2) Algebra: G-403, G-404, G-407, G-472, 503, 572, 573.

(3) Applied Mathematics: G-405, G-406, G-411, G-415, G-416, G-420, G-441, G-442, G-443, G-484, G-485, 505, 551, 552, 553.

(4) Geometry and Topology: G-401, G-421, G-471, G-472, G-473, 501, 521, 571, 572, 573, 601, 671.

(5) Special Mathematics for Teachers: G-321, G-420, G-421, G-455, G-456, G-457, 561, 562, 563, 564, 565.

Only secondary school teachers who have had a minimum of three years experience in teaching secondary school mathematics may choose Area 5 as a major.

If Area 5 is chosen as a major, at least six courses from Areas 1 to 4 must be included in the program.

Programs leading to the Master of Arts or the Master of Science degree must include at least one course in each of the first four areas. The requirement of 24 hours in courses numbered above 500 will be fulfilled as follows: (1) Two courses from Area 1. (2) Courses from two areas must be included. The program should include at least one three-quarter sequence in one area.

All other University requirements for the Master's degree, as outlined in the Graduate Catalogue, must be completed.

COURSE DESCRIPTIONS

G-321—**Foundations of Mathematics for Junior High School Teachers.** Four hours.

This is a course designed for persons currently teaching junior high school mathematics, or who are preparing to teach secondary school mathematics. It covers the development of the number system, set theory, nonmetric geometry, coordinate system, measurement, geometry, and statistics.

G-401—**Geometry.** Four hours. (478)

Prerequisite: Mathematics 275.

Geometry of the triangle and the circle beyond ordinary Euclidean geometry.

G-402—**Theory of Equations.** Four hours.

Prerequisite: Mathematics 375.

G-403—**Introduction to Modern Algebra.** Four hours. (481)

Prerequisite: Mathematics 402 or G-402.

Theory of groups, rings, ideals, integral domains, and fields of applications.

G-404—**Matrix Theory.** Four hours. (479)

Prerequisites: Mathematics 102-275.

Matrix algebra, linear transformations, Cayley-Hamilton Theorem, similarity, applications.

G-405—**Differential Equations, I.** Four hours. (485)

Prerequisites: Mathematics 377.

Simple types of ordinary differential equations of the first order and second order, linear equations with constant coefficients, and applications to goemetry and physics.

G-406—**Numerical Analysis I.** Four hours. (486)

Prerequisite: Mathematics 405. (405 and 406 may be taken concurrently)

Numerical solutions of algebraic and transcendental equations, systems of equations, and ordinary differential equations. A study of finite differences, interpolation, numberial integration, and various types of approximations.

G-407—**Number Theory.** Four hours. (488)

Prerequisite: Mathematics 402 or G-402 (402 and 407 may be taken concurrently).

An introduction to the theory of numbers, integers, aliquot parts, Diophantine equations, linear congruences, the chinese remainder theorem, continued fractions.

G-411—**Vector Analysis.** Four hours. (483)

Prerequisite: Permission of instructor.

Vector algebra and vector calculus, with applications to physics, mechanics, and geometry.

G-415—**Differential Equations II.** Four hours.

Prerequisite: Mathematics 405 or G-405.

Laplace transforms, series solutions, gamma functions, Bessel's functions, Legendre's polynominals, existence theorems, and applications to geometry and physics.

G-420—**Statistics and Probability.** Four hours.

Prerequisite: Mathematics 320 and 382.

A modern course treating probability and statistics based upon the elementary theory of sets. It includes sets, permutations, combinations, binomial and multinomial theorems, mathematical induction, graphic methods, and basic statistical concepts.

G-421—**Foundations of Mathematics I.** Four hours. (484)

Prerequisite: Permission of instructor.

Calculus of sets, equivalence of sets, arithmetic of cardinal and ordinal numbers.

G-431—**Theory of Functions of a Complex Variable I.** Four hours. (490)

Prerequisite: Permission of instructor.

Complex numbers, analytic functions, infinite series, Cauchy's integral theorem, analytic continuation, Reiman surfaces, conformal mapping.

G-441—**Advanced Calculus I.** Four hours. (487)

Prerequisite: Mathematics 377 or 384.

Infinite series, continuity, limits, Gama and Beta functions, and vector analysis. Fourier series.

G-442—**Advanced Calculus II.** Four hours. (587)

Prerequisite: Mathematics 441 or G-441.

G-443—**Advanced Calculus III.** Four hours. (687)

Prerequisite: Mathematics 442 or G-442.

G-455—**Mathematics for Secondary Teachers I.** Four hours.

Prerequisite: Permission of the instructor.

A consideration of the subject matter which should be included in modern courses in secondary school algebra.

G-456—**Mathematics for Secondary Teachers II.** Four hours.

Prerequisite: Permission of the instructor.

A consideration of the subject matter which should be included in a modern geometry course of two or three semesters length. This course will

include both two and three dimensional geometry. Its purpose is to acquaint the student with some of the fundamental concepts of geometry and to help him to obtain a practical understanding of "proof."

G-457—**Mathematics for Secondary Teachers III.** Four hours.

Prerequisite: Permission of the instructor.

A consideration of subject matter recommended for advanced courses in secondary school mathematics as set theory, probability and statistics, matrices, advanced topics in algebra, and foundations of mathematics.

G-471—**General Topology.** Four hours. (493)

Prerequisite: Permission of the instructor.

Topological spaces, separation properties, compact sets, connected sets, product spaces.

G-472—**Algebraic Topology.** Four hours. (494)

Prerequisite: Permission of instructor.

Introduction to cohomology.

G-473—**Metric Spaces.** Four hours. (496)

Prerequisite: Mathematics 471.

Separable metric spaces, embedding in separate Hilbert spaces, isolated theorems on metric spaces, including Lavrentiev's Theorem.

G-484—**Mechanics I. Statics.** Four hours.

Prerequisites: Mathematics 377 or 384 and Physics 103 or 203.

A study of vectors, concurrent forces, coplanar forces, resultants, equilibrium, forces in space, moments of inertia, center of gravity, hydrostatics, work, kinetic energy, and dynamics of a rigid body.

G-485—**Mechanics II. Dynamics.** Four hours.

Prerequisite: Mathematics 484 or G-484.

A continuation of 484.

501—**Geometry II.** Four hours. (578)

Prerequisite: Mathematics 401 or G-401.

An introduction to higher geometry-homogeneous coordinates, cross ratio, projectives, invarience, duality.

503—**Modern Algebra II.** Four hours. (581)

Prerequisite: Mathematics 403 or G-403.

A continuation of 403 or G-403.

505—**Partial Differential Equations.** Four hours. (585)

Prerequisite: Mathematics 405 or G-405.

A continuation of 405 or G-405.

521—**Foundations of Mathematics II.** Four hours. (584)

Prerequisite: Mathematics 421 or G-421.

The continuum hypothesis and equivalents; the axiom of choice and equivalents.

531—**Theory of Functions of a Complex Variable II.** Four hours. (590)

Prerequisite: Mathematics 431 or G-431.

A continuation of 431 or G-431.

532—**Theory of Functions of a Real Variable I.** Four hours. (192)

Prerequisite: Permission of instructor.

Real number system, point set theory, Lebesgue integration, Stieltjes integrals.

533—**Theory of Functions of a Real Variable II.** Four hours. (592)

Prerequisite: Mathematics 532.

534—**Theory of Functions of a Real Variable III.** Four hours. (692)

Prerequisite: Mathematics 533.

551—**Advanced Mathematics for Engineers and Physicists I.** Four hours.

Prerequisite: Mathematics 405 or G-405.

Infinite series of functions with particular emphasis on Fourier series; matrices and determinants with application in linear differential equations, integral transformations, applications of these topics in wave theory, heat flow, etc.

552—**Advanced Mathematics for Engineers and Physicists II.** Four hours.

Prerequisite: Mathematics 551.

A continuation of 551.

553—**Advanced Mathematics for Engineers and Physicists III.** Four hours.

Prerequisite: Mathematics 552.

A continuation of 552.

561—**Foundations of Geometry.** Four hours.

This course, principally a summer institute course, will be a treatment concerned with points, lines, planes, and spaces as in high school goemetry. The fundamental concepts and relations will be developed on the basis of a set of axioms in a rigorous way. Selected topics include Euclidean geometry, synthetic and analytic projective geometry, non-Euclidean and metric protective geometries.

562—**Introduction to the Foundation of Mathematics.** Four hours.

This course, principally a summer institute course, will treat selected topics; calculus of sets, Bernsteins Theorem, arithmetic of cardinal and ordinal numbers, partially ordered sets, the axiom of choice and its equivalents.

563—**Introduction to Modern Algebra.** Four hours.

This is principally a summer institute course. Particular emphasis will be given to the investigation of the structures of arithmetic and algebra. Some specific objectives are: the adoption of an abstract viewpoint of real numbers as logical entities, the selection of an extensive set of axioms for characterizing the real numbers, the development of a complete well-ordered field theory of real numbers at the elementary level and the development of basic concepts such as equivalence relations, equivalence classes, isomorphisms, etc.

564—**Statistics and Probability.** Four hours.

A modern course on probability and statistics based upon the elementary theory of sets. Includes sets, permutations and combinations, bionomial

theorem, mathematical induction, graphic methods and basic statistical concepts.

565—**Fundamentals of Mathematical Analysis.** Four hours.

An intensive review and formulation of fundamental concepts of analytic geometry and calculus with particular emphasis on understanding, rather than formal techniques.

571—**General Topology II.** Four hours. (593)

Prerequisite: Mathematics 471 or G-471.

Metrization Theorems, paracompactness and related topics.

572—**Algebraic Topology II.** Four hours. (594)

Prerequisite: Mathematics 472 or G-472.

Introduction to Lie groups.

573—**Rings of Continuous Functions.** Four hours. (611)

Prerequisites: Mathematics 432 or G-432 and 471 or G-471.

The theory of ideals in the ring of continuous functions on a completely regular space.

594—**Mathematics Seminar I, II, III.** One hour each. (570a,b,c)

Prerequisite: Permission of Instructor.

598—**Thesis in Mathematics.** Six hours. (514B)

601—**Geometry III.** Four hours. (678)

Prerequisite: Mathematics 405 or G-405.

An introduction to differential geometry-curves, surfaces, Frenet Formulae fundamental forms, geodesics, curvature.

631—**Theory of Functions of a Complex Variable III.** Four hours. (690)

Prerequisite: Mathematics 531.

A continuation of 531.

671—**General Topology III.** Four hours. (693)

Prerequisite: Mathematics 571.

Theory of function spaces.

694—**Mathematics Seminar I, II, III.** One hour each. (700a,b,c)

Prerequisite: Permission of Instructor.

DEPARTMENT OF PHYSICS AND ASTRONOMY

H. C. Dudley, Chairman
A. N. Heyn

The Department of Physics offers a program leading to the Master of Science degree. For this degree a minimum of 30 graduate hours of physics is required. Students obtaining this degree will minor in mathematics. A thesis and a reading knowledge of Russian, German, or French are also required.

Students planning to do graduate work should acquire about 60 hours of undergraduate physics credit. The Department of Physics may require the student to complete certain undergraduate courses in physics when his preparation is deemed inadequate.

COURSE DESCRIPTIONS

G-481—**Nuclear Physics.** Four hours.

Prerequisites: PHY 381 and MAT 405 or G-405.

Nuclear binding forces, chain reaction, criticality, the non-steady state reactor, radiation shielding and detection.

G-483—**X-ray Theory and Techniques.** Four hours.

Three lecture periods, and one three hour laboratory period each week.

Prerequisite: Permission of the Chairman of the Department of Physics.

X-rays as tools of research, theory and practical application of X-ray diffraction, reflection, and interference phenomena.

X-ray crystallograph.

G-484—**X-ray Theory and Techniques.** Four hours.

A continuation of G-483.

G-485—**History and Literature of Physics I.** Three hours.

A survey of the history of physics from ancient times to 1900, stressing the rise and fall of concepts.

G-486—**History and Literature of Physics II.** Three hours.

A survey of the influence of the concept of quanta and relativity, and the modern laboratory findings which impinge on these theories. Survey of the coding, storage, and retrieval of scientific information.

G-487—**Electron Optics.** Four hours. Three one-hour lecture periods, and one three-hour laboratory period per week.

Prerequisite: Permission of the Chairman of the Physics Department.

The theory and application of the electron microscope to study of problems of atomic structure.

501—**Theoretical Physics.** Three hours.

Prerequisite: Consent of instructor.

Selected topics of general physics from an advanced point of view.

502—**Theoretical Physics.** Three hours.

Prerequisite: PHY 501.

A continuation of Physics 501.

503—**Theoretical Physics.** Three hours.

Prerequisite: PHY 502.

A continuation of Physics 502.

504—**Critique of Theory.** Three hours.

Prerequisite: Six (6) hours of Theoretical Physics.

A critical review of the assumptions and mathematical procedures which make up what is termed "Theoretical Physics."

561—**Modern Physics I.** Four hours.

Three lecture periods and one three-hour laboratory period per week.

Prerequisite: Consent of instructor and PHY 371.

Electromagnetic waves, electron emission, X-radiation, relativity, quantum theory, spectroscopy, wave mechanism, atomic and nuclear structure, and cosmic rays.

562—**Modern Physics II.** Four hours.

Three lecture periods and one three-hour laboratory period per week.

Prerequisite: PHY 561.

A continuation of Physics 561.

563—**Modern Physics III.** Four hours.

Three lecture periods and one three-hour laboratory period per week.

Prerequisite: PHY 562.

A continuation of Physics 562.

570—**Fundamentals and Modern Problems of General Physics for High School Teachers.** Four hours.

A presentation of the fundamentals of physics. Stress will be placed on problem solving, the precise definition of terms and the employment of correct terminology. Recent developments in physics will receive attention. Specifically designed to bring up to date the high school physics teacher's comprehension of the fundamentals of physics. Open only to candidates for the degree of Master of Science in Combined Sciences. May not be counted as a major or minor in physics.

594—**Seminar I, II, III, IV.** One hour each.

Prerequisite: Consent of instructor.

This course will be devoted to the study of the current literature of physics and may be supplemented by laboratory research. The student will prepare and deliver one or more papers before the department.

599—**Research I, II, III.** One to three hours each.

Prerequisite: Consent of the instructor.

DEPARTMENT OF POLITICAL SCIENCE

Leon A. Wilber, Chairman
Brent Hatcher Tuchak

Graduate Major in Political Science

Major and Minor. For his major, the student must take 30 graduate hours in Political Science, and 16 hours in a minor approved by his adviser or his graduate committee. Recommended minors are history, geography, sociology, and economics, and for teachers, education. Before selecting a minor, the student should be sure he has the necessary prerequisites. One-half of the' graduate courses must be 500 or above.

Course Requirements in the Major. At present the selection of political science courses will be left to the discretion of the student and his committee. The following program, however, is recommended as an ideal toward which the department intends to work as rapidly as possible, and should be followed as closely as scheduling will permit.

(1) As a graduate or undergraduate, the student must have taken one course (in addition to P.S. 101) from each of the following four fields:

(a) Political theory.
(b) American political institutions and processes.
(c) Comparative political institutions and processes.

(d) International relations, international organization, and international law.

(2) The student must take at least one course at graduate level in political theory.

(3) The student must specialize in one of the four fields listed above under (1), taking at least 16 graduate hours in the field.

(4) The student must also take at least eight hours at graduate level in a subdivision of one of the four fields listed above under (1).

(5) At least three courses numbered 500 or above must be taken in Political Science, and at least one-half of the graduate work must be in the 500 level or above.

(6) A written and oral comprehensive examination will be given during the last quarter of work on the degree. It will be difficult to schedule the examination during the summer, however.

Special Requirements for the Master of Arts. A thesis and a reading knowledge of a foreign language are required for the Master of Arts degree. They are optional for the Master of Science.

Course Accepted from Other Departments. The following courses will be accepted as political science for purposes of completing a major or minor if approved by the student's adviser:

B. Ad. G-315, Econ. G-400, His. G-405 (highly recommended), G-411, G-469, G-470, G-475, and G-477.

COURSE DESCRIPTIONS

G-301—**State Government.** Four hours.

A study of the organization and administration of state governments with some emphasis on Mississippi.

G-303—**Municipal Government.** Four hours.

A study of the principal systems of municipal government in the United States, with emphasis on Mississippi.

G-305—**County Government.** Four hours.

A study of local rural government, with some emphasis on Mississippi.

G-307—**Mississippi State and Local Government.** Four hours. (714 and 510)

A concentrated study of Mississippi state, county, and municipal government.

G-350—**Comparative Government.** Four hours.

A survey of the principal types of government abroad, especially British, French, and Russian. (Although the Russian Government is touched on, it is not emphasized because it is the subject of an entire course, G-360).

G-360—**Soviet Political Institutions.** Four hours.

A detailed study of the political, economic and social structure of the Soviet Union, and of the role of the Communist Party.

G-400—**Political Theory to 1783.** Four hours.

Political thought from Plato through the Enlightenment, with emphasis on the contributions of individual philosophers.

G-402—**American Political Theory.** Four hours.

A study of the principal political ideas that have influenced the development of the United States' political system. The course will touch on Puritan political thought in the New England colonies, but will give principal emphasis to developments from the Revolutionary period to the present.

G-404—**Political Theory Since 1783.** Four hours.

Recent and contemporary European political thought with emphasis on the political theories of liberalism, conservatism, socialism, communism, and fascism.

G-406—**American Political Parties and Pressure Groups** Four hours.

A survey of party structures, problems, and the methods of political leaders. Also a survey of present pressure groups and their methods.

G-412—**U. S. Constitutional Law.** Four hours.

A survey, by the case method, of principles and practices of American constitutional law. Emphasis is placed upon judicial review, the federal system, national powers, and individual rights.

G-457—**International Politics.** Four hours.

A study of the methods and forces involved in international political struggles.

G-458—**International Organization.** Four hours.

A study of the principal types of international organization, and of examples of the same, such as the United Nations and the Organization of American States.

G-460—**Public Administration.** Four hours.

An introductory study including administrative organization, personnel management, and fiscal management.

G-485—**International Law.** Four hours.

A sampling of the field, based largely on cases.

511—**Seminar in Political Theory.** Four hours.

A research-type course in which each student will make an intensive study of one or more areas of political theory, or of one or more great writers on political theory.

520—**Seminar in U. S. Constitutional Law.** Four hours.

A research-type course in which each student will make an intensive study of one or more fields of U. S. Constitutional Law.

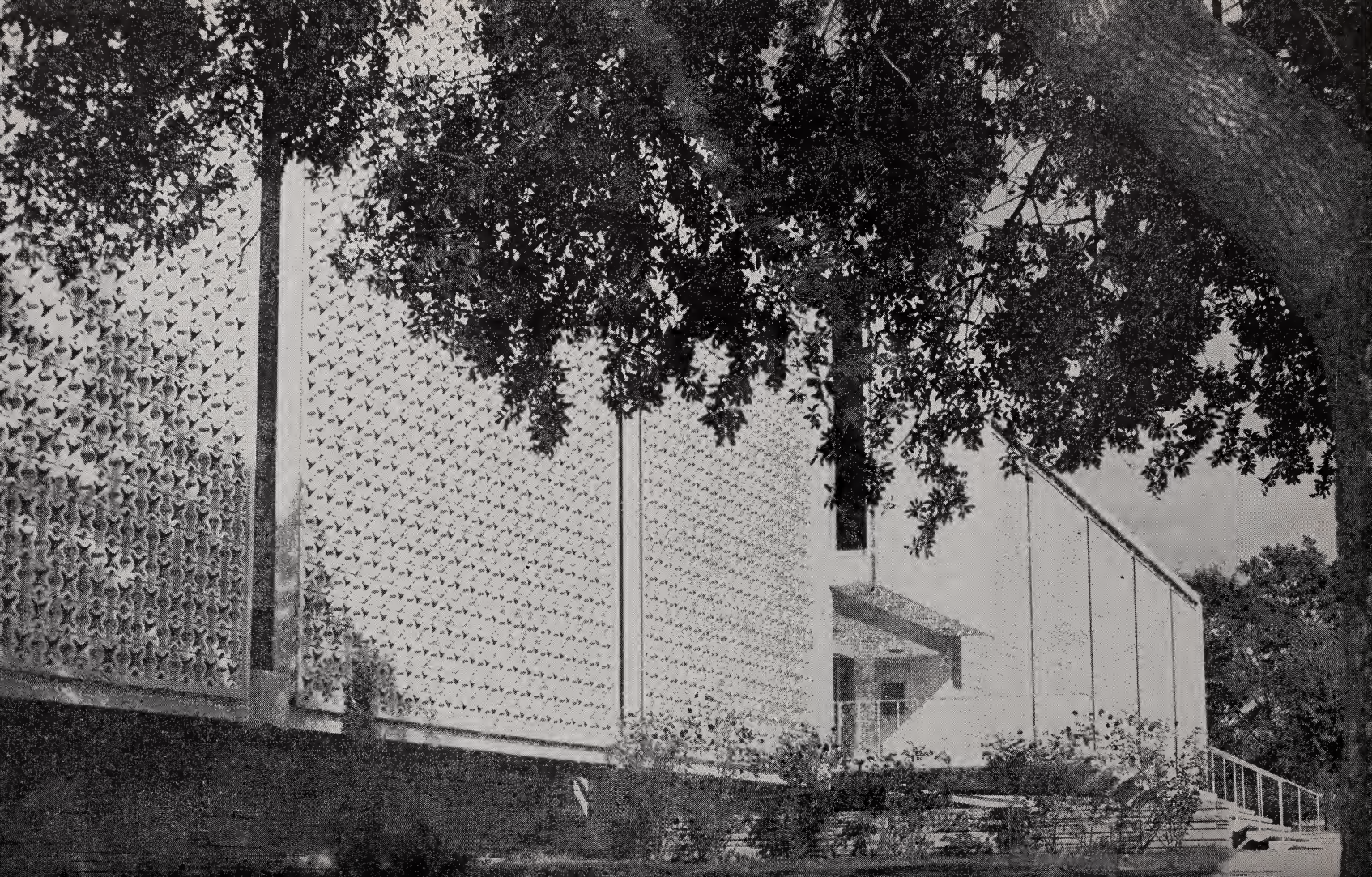
530—**Seminar in U. S., State and Local Government.** Four hours.

An advanced course in state and local government which will be adapted to the needs of the specific students taking it. Usually the student will make an intensive study of one or more problems.

532—**Seminar in U. S. Government.** Four hours.

Prerequisite: Consent of the instructor.

An advanced course in the United States Government which will be adapted to the needs of the specific students taking it. Usually the student will make an intensive study of one or more problems.



540—**Seminar in Comparative Government.** Four hours.

A research-type course in which each student will make an intensive study of the political institutions of one country, or of a group of countries having similar governments.

550—**U. S. Foreign Relations Today.** Four hours.

(Formerly His. 550) A survey of current United States foreign policies and problems. With the permission of a student's adviser, this may be counted as history.

592 I, II, III—**Special Problems.** One hour each.

The student works individually on a problem in political science under the supervision of a graduate faculty member.

598—**Thesis.** Six hours.

Preparation of a Master's thesis, with the help of a member of the graduate faculty. Credit withheld until the theisis is completed.

DEPARTMENT OF SOCIOLOGY

John N. Burrus, Chairman
Allen Drysdale

The Department of Sociology offers a graduate major and graduate minor on the Master's degree level. The Department's graduate program provides for the Master of Arts degree in sociology and a sociology minor in the Master of Arts and Master of Science degree programs of other departments.

General regulations governing admission to the Graduate School, requirements of the School of Arts and Sciences, and requirements for admission to candidacy for degree are to be found elsewhere in this catalog. The graduate student should familiarize himself with these requirements and assume responsibility for their discharge.

The major professor and departmental chairman will work out a program of study with, and for, each student electing to do graduate work in sociology.

If the student is uncertain as to whether he has satisfied undergraduate or course prerequisites for any particular course, he should consult the instructor for clarification.

The Master of Arts Program in Sociology

In the major areas the Department of Sociology offers only the Master of Arts degree. General requirements correspond to the requirements of the University and its Graduate School. Policies on admission to the University, admission to the Graduate School, and admission to candidacy for degree, and grading standards conform to those laid down by the University.

Requirements for the Master of Arts Degree

30 quarter hours in sociology

16 quarter hours in a minor subject approved by the department

At least half of the hours must be in courses numbered 500 or above

Reading knowledge of one foreign language (proficiency as determined by graduate school policy)

Write a thesis to be approved by major professor

A written comprehensive examination

An oral examination by the student's committee to be based on the thesis, the major, and the minor.

COURSE DESCRIPTIONS

G-340—**Rural Social Problems.** Four hours. (416)

An advanced course in Rural Sociology. Certain areas of rural life and social change are selected for detailed study. The effects of urbanization, mechanization, and migration are examined.

G-401—**Population.** Four hours. (430)

A course in population analysis. Examines differentials and trends in birth rates, migration, sex ratios, and mortality rates. Instruction is given in how to compute and interpret elementary vital data. Special attention is given to Mississippi population data.

G-420—**Industrial Sociology.** Four hours.

An advanced sociological study of industrial and business units as social systems and their institutional setting.

G-429—**Juvenile Delinquency.** Four hours. (429)

A study of causes and the nature of juvenile delinquency, the development of the juvenile court of probation and other rehabilitative programs. Recommended for students, teachers, social workers, and others with a serious interest in the study of delinquency.

G-430—**Social Foundations of Personality.** Four hours.

A comprehensive treatment of the role of the social group and the cultural heritage in the development and functioning of the human personality. An analysis of social institutions, social organizations and social experience as they are related to personality development. Advanced standing required.

G-450—**Social Institutions.** Four hours. (475)

A detailed study of major American social institutions; their functions, interrelationships, and significant trends. Emphasis on theory of social structure.

G-470—**Advanced General Sociology.** Four hours. (470)

An advanced course in general sociology given expanded treatment to the basic sociological concepts and subject-matter areas. A basic course in a graduate program.

G-481—**History of Social Thought.** Four hours. (481)

An introduction to social theory. A survey of men and ideas that have influenced the development of Western civilization.

G-482—**Sociological Theory.** Four hours.

A survey of the growth and development of sociological theory from Comte to the present.

G-485—**Methods of Social Research.** Four hours. (482)

A survey of the basic techniques and methods essential to locating, processing and presenting research materials.

Courses Exclusively for Graduate Students

507—**American Community Life.** Four hours. (507)

A study of American community life and its social and cultural patterns. Emphasis is placed on structure and importance of the community in American social life and on significant changes in community functions within recent years.

530—**Seminar in Social Control and Social Change.** Four hours.

A study of the forms of social control. Independent research projects are reported in the seminar for discussion and evaluation.

550—**Social Institutions.** Four hours.

An advanced course in social institutions. A study of the structure and function of the five basic institutions. Each student will select one institution for intensive study.

570—**Seminar in Sociological Theory.** Four hours.

A detailed study of the content and influence of selected major contributors to sociological theory.

580—**Seminar in Demography.** Four hours.

Each student does a demographic study of his home county (or other selected area) under the supervision of the instructor. Seminar meetings deal with theory, methods and interpretation of data.

598—**Thesis.** Six hours.

Credit will not be recorded in 598 until thesis is accepted by major professor.

DEPARTMENT OF SPEECH

Gilbert F. Hartwig, Chairman

Chappell Creech Grange Peters Strange Treser

The Department of Speech participates in programs leading to the Master of Arts and Master of Science degree. For all master's degrees, 46 graduate hours are required, 24 of which must be in courses numbered above 500.

For the Master of Arts degree, the student must take 16 graduate hours in an academic minor field approved by the department, demonstrate proficiency in a foreign language (by examination or by presentation of sufficient undergraduate credit), and write a thesis.

For the Master of Science degree, the student may elect a minor to total 16 hours in any field approved by the department. There is no language requirement for the Master of Science degree.

COURSE DESCRIPTIONS

Courses numbered above 500 are exclusively graduate offerings. To major in any area of speech on the graduate level, a student should have the equivalent of an undergraduate minor, or be willing to correct deficiencies as specified by the department.

AUDIOLOGY (Aud.)

G-301—**Introduction to Audiology.** Five hours. (433)

Prerequisite: Sp.T. 301.

An introduction to hearing problems and the testing of hearing.

G-401—**Auditory Training.** Four hours. (434)

Clinical methods used in rehabilitating the acoustically handicapped.

G-405—**Clinical Audiology.** Four hours. (498)

Prerequisites: Sp.T. 301 or Aud. 301.

Advanced audiometric techniques and clinical audiology procedures.

G-409—**Speech Reading.** Four hours. (411)

Prerequisite: Consent of instructor.

Study and application of major theories of speech reading (lip reading).

G-413—**The Pre-School Deaf Child.** Four hours. (412)

Prerequisite: Consent of the instructor.

Study of the problems of the adjustment and communication of the deaf child.

G-417—**Audiological Instrumentation.** Four hours. (413)

Prerequisite: Consent of instructor.

Study of the instrumentation and techniques of measuring of hearing.

G-421—**Education of the Deaf.** Four hours. (414)

Prerequisite: Consent of instructor.

Study techniques of education of the deaf.

G-492—**Problems in Audiology.** One to six hours. (436)

Individual study and research.

501—**Advanced Problems in Hearing.** Four hours. (540)

509—**Psychoacoustics.** Four hours. (542)

The application of psycho-physical techniques to speech and hearing.

513—**Design of Experiments in Hearing.** Four hours. (543)

598—**Thesis in Audiology.** Four hours. (514B)

PUBLIC ADDRESS, RADIO and **TELEVISION** (P.A.)

G-314—**Advanced Debate.** Four hours. (468)

Prerequisite: P.A. 111.

The processes of argument. Analysis of different styles of debate.

G-330—**Phonetics.** (See Sp.T. 330 for details.)

G-341—**Persuasion.** Four hours. (415)

Humor, fear, the compliment personality, reasoning, and evidence in their relationship to opinion change. Study of recent research in persuasion in advertising, social psychology, public opinion, and rhetoric.

G-361—**Discussion and Group Leadership.** Four hours. (467)

The principles of effective conference and committee participation in problem solving.

G-370—**Speech Composition.** Four hours.

Theory of oral and written style; preparation and presentation of the manuscript speech.

G-416—**Debate Coaching I.** Two hours.

Prerequisite: P.A. 111, 314.

Organizing debate program. Principles of debate coaching.

G-424—**Radio and TV Law.** Four hours. (400)

Prerequisite: Consent of instructor.

G-426—**Radio Station Management.** Four hours. (401)

Prerequisite: 12 hours of Radio and TV courses above P.A. 121.

G-441—**Advanced Persuasion.** Four hours. (419)

Prerequisite: P.A. 341.

Detailed analysis of selected topics in the field of persuasion. Current persuasive efforts will be examined.

G-445—**Audience Analysis.** Four hours. (488)

Prerequisite: Consent of instructor.

Characteristics of audiences, measurement of attitudes, and an analysis of the major rating services.

G-447—**Mass Communication.** Four hours. (489)

Prerequisite: Consent of instructor, P.A. 341 recommended.

Formation of public opinion and its relation to broadcasting.

G-449—**International Communication.** Two hours. (490)

Prerequisite: Consent of instructor.

Survey of foreign broadcasting and special problems involved in communicating with people in other countries.

G-451—**Ethos.** Two hours. (407)

Prerequisite: P.A. 341.

The effect of the projected manifest personality of the speaker on the audience; the factors that determine audience reaction to the individual speaker.

G-453—**Analysis of Persuasive Campaigns.** Four hours. (408)

Prerequisite: P.A. 341.

A study of the rhetoric of mass movements, political campaigns, and other efforts to mold public opinion over time. (To be taught election years; national and state.)

G-492—**Special Problems in Public Address and or Radio and T.V.** One to four hours. (499)

Prerequisite: Consent of instructor.

Special research study.

500—**Reading in the Field.** Two hours.

May be repeated up to six hours.

540—**Classical Rhetoric.** Four hours.

The rhetoric of Plato, Aristotle, Cicero, Quintillian, and related minor contributions.

541—**Medieval Rhetoric.** Four hours.

Rhetoric leading up to the Renaissance; the Renaissance following with emphasis on Campbell, Blair, and Whately.

542—**Modern Rhetoric.** Four hours.

The twentieth century— a blend of rhetoric and psychology.

550—**Advanced psychology of speech.** Four hours. (590)

555—**World Orators.** Four hours.

The rhetoric of other nations, particularly England, France, and Italy.

570—**Speech Arts Seminar.** Four hours. (May be repeated once.)

Designed to analyze specific areas of communication.

575—**History and Criticism of American Public Address.** Four hours.

Selected speakers, movements, and speeches from colonial time to the present.

584—**Seminar in Criticism of Contemporary Public Address.** Two hours. (510)

(May be repeated up to six hours)

598—**Thesis in Public Address.** Six hours. (514B)

600—**Material and Methods of Research.** Two hours.

610—**Experimental Methodology.** Four hours.

SPEECH THERAPY (Sp.T.)

G-301—**Introduction to Speech Therapy.** Four hours. (431)

Prerequisite: Preferably Sp.T. 330.

An introduction to the types of speech disorders.

G-330—**Phonetics.** Four hours. (452)

The International Phonetic Alphabet and the several guides to pronunciation of the major English dictionaries.

G-332—**Introduction to Semantics.** Four hours. (455)

Prerequisite: Consent of instructor.

A critical and analytical study of the significance of language in terms of the use of words as signs and symbols. Consideration will be given to the meaning of words and how these meanings change from context to context.

G-334—**Voice Science.** Four hours. (430)

Prerequisite: Sp.T. 301.

Survey of the physiology and pathology of the speech and hearing mechanism.

G-336—**Experimental Phonetics.** Four hours. (410)

Prerequisite: Consent of instructor.

A study of laboratory investigations of problems in phonetics as they are related to functional speech.

G-338—**Psychology of Speech.** Four hours. (435)

Prerequisite: Consent of instructor.

Study of problems in speech with particular reference to information theory, speech intelligibility and experimental studies in voice communication.

G-401—**Principles of Speech Therapy.** Four hours. (432)

Prerequisite: Sp.T. 301.

Advanced therapy for speech disorders. Observation, and assistance with therapy in the speech and hearing clinic.

G-405—**Stuttering and Related Problems.** Four hours. (492)

Prerequisites: Sp.T. 301, 330, 401.

Theories and programs of therapy evaluated with respect to the problem of stuttering by children and adults.

G-409—**Cerebral Palsy.** Four hours. (493)

Prerequisites: Sp.T. 301, 330, 401.

Cerebral Palsy from the standpoint of causitive factors, speech problems, and current therapy practices.

G-413—**Cleft Palate.** Four hours. (494)

Prerequisites: Sp.T. 301, 330, 401.

Includes the study and application of theories and therapies for cleft palate persons.

G-417—**Delayed Speech and Phasia.** Four hours. (495)

Prerequisites: Sp.T. 301, 330, 401.

Problems of delayed speech and aphasia studied with particular emphasis on therapy techniques.

G-421—**Voice and Articulation.** Four hours. (496)

Prerequisites: Sp.T. 301, 330, 401.

A study of disorders of voice (hoarseness, nasality, pitch, and laryngetomized) and articulation (substitution, omission, addition, and distortion).

G-492—**Problems in Speech Therapy.** One to six hours. (499)

Prerequesite: Consent of instructor.

Special research study.

501—**Advanced Speech Therapy.** Four hours. (539)

505—**Advanced Experimental Phonetics.** Four hours. (541)

513—**Design of Experiments in Speech Therapy.** Four hours. (543)

598—**Thesis on Speech Therapy.** Six hours. (514B)

THEATRE AND ORAL INTERPRETATION (The.)

G-306—**Scene Design.** Four hours. (420)

Prerequisite: Theatre 302, or consent of instructor.

Elements of stage design. Play analysis in terms of visualization and style, and the mechanics of developing an effective stage setting.

G-308—**Stage Lighting.** Four hours. (421)

Prerequisite: Consent of instructor.

Theory and application of general and special lighting, color, instrumentation, and control.

G-314—**Acting.** Four hours. (404)

Prerequisite: Theatre 103, or consent of instructor.

Fundamentals of movement, pantomine, voice and characterization for the stage.

G-321—**History of European Theatre.** Two hours. (406a)

Prerequisite: Theatre 103, or consent of instructor.

Important playwrights, structures and influences from primitive time up through the Italian Renaissance.

G-322—**History of Eupropean Theatre.** Two hours. (406b)

Prerequisite: Theatre 103, or consent of instructor.

Playwrights, structures and influences from the Italian Renaissance up through 1850.

G-323—**History of European Theatre.** Two hours. (406c)

Prerequisite: Theatre 103, or consent of instructor.

Playwrights, structures and influences since 1850 in countries other than the United States.

G-408—**Advanced Theatre Production.** Two hours. (426)

Prerequisite: Theatre 103, or consent of instructor.

The handling of special effects on the modern stage, and a study of special problems in period plays for contemporary production.

G-414—**Advanced Acting.** Two hours. (453)

Prerequisite: Theatre 314.

Theories of acting, methods employed, and application of advanced techniques to the actor's problem of character projection.

G-416—**Playwrighting I.** Four hours.

Prerequisite: Consent of instructor, or Theatre 316.

Analysis of play structure and guidance in the construction of a play.

G-418—**Directing.** Four hours. (451)

Prerequisite: Theatre 314.

Principles of stage directing. Application of principles by students in directing a one-act play.

G-419—**Advanced Play Directing.** 2 hours.

Prerequisite: The. 418-G-418.

Continuation of The. 418.

G-421—**History of American Theatre.** Two hours. (473a)

Prerequisite: Theatre 103, or consent of instructor.

A survey of developments in the American Theatre from pre-colonial times up to 1860.

G-422—**History of American Theatre.** Two hours. (474b)

Prerequisite: Theatre 103, or consent of instructor.

A survey of developments in the American Theatre from 1860 up to the present.

G-426—**Playwrighting II.** Two hours.

Prerequisite: The. 416—G-416 I.

Continuation of The. 416-G-416 I.

G-430—**Summer Theatre I.** Four hours.

G-431—**Summer Theatre II.** Four hours.

G-432—**Summer Theatre III.** Four hours.

G-433—**Summer Theatre IV.** Four hours.

Prerequisite: Consent of Staff.

An eleven week program covering all phases of theatre production in an operating summer stock theatre. Must be taken concurrently.

G-436—**Playwrighting III.** Two hours.

Prerequisite: 416-G-416 and 426-G-426.

Continuation of The. 416 II.

G-492—**Problems in Theatre.** One to four hours. (499)

Prerequisite: Consent of Instructor.

Special research study.

500—**Reading in the Field.** Two hours.

506—**Dramaturgy.** Four hours.

Examination and evaluation of theories of the structure of drama since Aristotle.

508—**Graduate Technical Direction.** Four hours. (528)

518—**Graduate Directing.** Four hours. (527)

598—**Thesis in Theatre.** Six hours. (514B)

SCHOOL OF COMMERCE AND BUSINESS ADMINISTRATION

Joseph A. Greene, Jr., Dean

DEGREES OFFERED

The School of Commerce and Business Administration offers graduate study leading to the degree of Master of Science with a major in economics, business administration or business education and to the degree of Master of Arts with a major in economics.

GENERAL REQUIREMENTS

Information concerning admission to Graduate School, admission to candidacy for a Master's degree, fellowships, residence requirements and other regulations may be found under the general requirements of the Graduate School. All these regulations apply to students pursuing graduate work in the School of Commerce and Business Administration. Specific requirements are listed under the outlined curricula.

BUSINESS ADMINISTRATION

Rector R. Hardin, Advisor

The purpose of the program leading to the degree of Master of Science with a major in Business Administration is to prepare persons for further graduate study and for positions of responsibility and authority within business firms. A student pursuing this program should have graduated in either Business or Economics and have completed Principles of Accounting, Principles of Economics, and at least one course in each of the following fields: Management, Marketing, Business Law, Finance, and Statistics. A student who is deficient in these requirements may be allowed to remove the deficiency while doing graduate work if the deficiency is not too great.

The degree will be conferred upon candidates who (1) meet the general requirements of the Graduate School, and (2) complete the special curriculum requirements as outlined below; and (3) pass an oral examination. A thesis is optional.

CURRICULUM REQUIREMENTS

	Hours
MANAGEMENT 520—Problems in Management	4
FINANCE 580—Seminar in Finance	4
*ECONOMICS 500—Economic Analysis	4
MARKETING 535—Marketing Problems	4
*ACCOUNTING 525—Managerial Accounting	4
MANAGEMENT 560 or FINANCE 585—History and Philosophy of Management or Business History	4
MINOR—(At least one course above 500)	16
THESIS or ELECTIVES	6
Total	46

*A student who uses one of these courses on his minor must substitute an acceptable course over 500 in his major.

ECONOMICS

Coldwell Daniel, III, Advisor

The Department of Economics offers a program leading to a Master of Arts with a major in economics and a program leading to a Master of Science with a major in economics. The purpose of both programs is to prepare students for positions as economists in education, business, and government.

Under either program, the student must meet the general requirements of the Graduate School as indicated above. There is no language requirement for a Master of Science degree and the thesis is optional with the student. A student pursuing the Master of Arts degree must demonstrate a proficiency in an approved foreign language by either passing a written examination or presenting sufficient undergraduate credits, and must also successfully complete an approved research project as evidenced by an accepted thesis. The specific requirements for the two degrees are listed below.

The recommended graduate minor in economics constitutes a systematic study of the economic environment in which we live. Several advanced undergraduate courses which have been designed to provide appropriate instruction in economics to students in other major fields may be taken for graduate credit.

In order to promote scholarship, fellowship, and the advancement of economics, all graduate students are encouraged to participate in the activities of the Economics Society, a student organization sponsored by the department. Graduate students who qualify may be offered membership in Omircon Delta Epsilon (Artus), the national honorary economics society.

The recommended graduate minor in economics consists of Economics 500, 505, 510, and 530 or 550.

CURRICULUM REQUIREMENTS

	Hours
ECONOMICS 500—**Microeconomic Theory**	4
ECONOMICS 505—**Macroeconomic Theory**	4
ECONOMICS 510—**Monetary Theory and Fiscal Policy**	4
ECONOMICS 530—**History of Economic Thought**	4
ECONOMICS 550—**Problems in Political Economy**	4
ELECTIVE (with approval of advisor)	4
THESIS or ELECTIVES (Thesis is optional for the Master of Science candidates only)	6
MINOR (at least one course above 500)	16
Total	46

BUSINESS EDUCATION

Annelle Bonner, Advisor

This program is designed for persons who plan to teach business subjects in junior college or small senior colleges, who desire Class AA certification in secondary school teaching, or who desire additional training for employment in the business world. A student pursuing this program should have completed an undergraduate major in Business Teacher Education; if not, he must become eligible for class A certification as a high school teacher of business subjects as a prerequisite to the completion of all requirements for the degree.

The Master of Science degree will be conferred upon candidates who (1) meet the general requirements of the Graduate School; (2) complete the special curriculum requirements outlined below; and (3) pass an oral examination. A thesis is optional. In addition, a comprehensive written examination covering course content may be required by the Department of Office Administration.

CURRICULUM REQUIREMENTS

	Hours
FINANCE 540—American Financial Institutions	4
FINANCE 585—Business History	4
*ELECTIVES in SCHOOL of COMMERCE and BUSINESS ADMINISTRATION	16
FOUNDATIONS EDUCATION 501—Research—Its Introduction and Methodology	4
FOUNDATIONS EDUCATION 504—Foundations in American Education	4
SECONDARY EDUCATION 551—Advanced Methods in Business Teaching	4
SECONDARY EDUCATION 552—Seminar in Business Education	4
ELECTIVES OR THESIS	6
Total	46

*Electives are to be chosen in consultation with the advisor.

DEPARTMENT OF ACCOUNTING

COURSE DESCRIPTIONS

G-301—**Intermediate Accounting I.** Four hours.

Prerequisite: Accounting 203.

A study of fundamental processes, accounting statements, the accounting process, and classification of assets and liabilities.

G-302—**Intermediate Accounting II.** Four hours.

Prerequisite: Accounting 301.

A coverage of corporate capital and surplus, and analytical processes, including statements from incomplete data, errors and their correction, and statement of application of funds.

G-310—**Auditing I.** Four hours.

Prerequisite: Accounting 302.

A study of auditing principles, techniques, and procedures, professional ethics and legal responsibility, the audit programs, field work, and the audit report.

G-320—**Elementary Cost Accounting.** Four hours.

Prerequisite: Accounting 302, or consent of instructor.

A beginning course in cost accounting, treating of terminology, the mechanics of process and job order cost accounting, the cost accounting cycle, accounting entries, and cost statements.

G-330—**Federal Income Tax Accounting I.** Four hours.

Prerequisite: Accounting

An introductory course covering classification of taxpayers rates, taxable income, exclusions, deductions, expenses, losses, individuals' returns, payment of taxes, employment taxes, depreciation, amortization, depletion, tax accounting, long-term income and inventories.

G-401—**Advanced Accounting.** Four hours.

Prerequisite: Accounting 302.

A comprehensive treatment of partnership accounting, consignments and installment sales, insurance, receiver's accounts, and annuities.

G-405—**Current Accounting Theory and Research.** Four hours.

Prerequisite: Accounting 310 or consent of instructor.

The study of current accounting problems, with special emphasis on the published bulletins (pronouncements) of professional accounting organizations. Students will explore specific contemporary controversial topics and write research papers.

G-410—**Auditing II.** Four hours.

A continuation of Accounting G-310 with emphasis on auditing principles and standards set forth by the American Institute of Certified Public Accountants, and application of procedures and techniques through use of practice sets.

G-420—**Advanced Cost Accounting.** Four hours.

Prerequisite: Accounting 320.

A continuation of Accounting G-320, with coverage of estimated costs, standard costs, variance analysis, joint and by-product costs, distribution costs, budgets, profit planning, and cost reports and statements.

G-430—**Federal Income Tax Accounting II.** Four hours.

Prerequisite: Accounting 330.

A continuation of Accounting G-330 with emphasis on installment sales, unpaid items, basis for gain or loss, capital gains and losses, net operating loss, partnerships, decedents, estates and trust, corporations, change in capital, liquidations, employees' plans, foreign taxes, deficiency, refund, estate, gift and excise taxes, and the revenue system.

G-440—**Budgeting.** Four hours.

Prerequisite: Accounting 301.

An analysis of the procedures used in preparation of business budgets, with consideration given to the principles underlying these procedures, comparison of performance with the budget, and enforcement of the budget.

G-450—**Accounting Systems.** Four hours.

Prerequisite: Accounting 401.

A study of the nature and procedure of systems work with attention given to the design and use of business papers and forms, mechanical equipment and auxiliary devices, punched-card accounting methods, journals, ledgers, internal checks, and applied accounting systems and procedures.

G-460—**Consolidated Statements and Accounting for Fiduciaries.** Four hours.

Prerequisite: Accounting 302.

A treatment of estate accounting, principles and reports, home office and branch accounting, parent and subsidiary accounting, consolidations and mergers, and foreign exchange.

G-470—**Municipal and Governmental Accounting.** Four hours.

Prerequisite: Accounting 203.

A study of the principles and standards of governmental accounting, with emphasis on classification of account, fund accounting, statements and reports.

G-480—**CPA Problems.** Four hours.

Prerequisite: 28 hours in accounting and senior standing.

An intensive and comprehensive review of various phases of accounting through study of past C.P.A. examination problems. Recommended for those who plan to sit for the C.P.A. examination.

G-492—**Research in Accounting Problems.** One to four hours.

Prerequisites: Accounting 401, and approval of instructor.

A seminar course for advanced study in problems in cost accounting, budgeting, auditing, or income tax.

525—**Managerial Accounting.** Four hours.

Prerequisite: Principles of Accounting.

A study of the uses of accounting statements and reports by management.

DEPARTMENT OF ECONOMICS
COURSE OFFERINGS

G-300—**Elementary Mathematical Economics.** Four hours.

An introductory study of the application of elementary mathematics to economic theory.

G-305—**Elementary Operations Research.** Four hours.

An introduction to the use of quantitative techniques in managerial decision-making.

G-310—**Economic History of the United States.** Four hours.

A study of the economics forces that have influenced the development of the United States from its European origins to the present.

G-330—**Money and Banking.** Four hours.

Prerequisites: Economics 251 and 252.

An intermediate study of the nature and functions of money, the banking system of the United States, and monetary theory.

G-335—**Economics of the Firm.** Four hours.

Prerequisites: Economics 251 and 252.

An intermediate study of the application of economic theory to managerial decision-making.

G-340—**Price Theory.** Four hours.

Prerequisite: Economics 251.

An intermediate study of the determination of prices in factor and final product markets.

G-345—**Income Theory.** Four hours.

Prerequisite: Economics 252.

An intermediate study of the determination of income and employment.

G-350—**International Trade Theory.** Four hours.

Prerequisite: Economics 330.

A study of the historical development of international trade theory, the importance of international trade, the mechanism of internal payments, and modern theories dealing with the subject.

G-355—**International Economic Relations.** Four hours.

Prerequisite: Economics 350.

A study of the problems and policies arising out of international economic relations and practices.

G-360—**Business Cycles.** Four hours.

Prerequisite: Economics 330.

A study of the nature, causes and effects of business cycles, and of policies to promote economic stability.

G-400—**Public Finance.** Four hours.

Prerequisites: Economics 251 and 252.

A study of federal and state spending and fund raising policies within the context of the social goals to be accomplished by such policies.

G-410—**Economics of Labor.** Four hours.

Prerequisites: Economics 251 and 252.

A study of the labor market with special reference to the institutional setting, wage determination, and employment problems in an industrial economy.

G-420—**Economics of Public Utilities.** Four hours.

Prerequisites: Economics 251 and 252.

A study of the development, institutional bases, structure, and regulation of public utilities.

G-430—**Economics of Urban Areas.** Four hours.

Prerequisites: Economics 251 and 252.

A study of the economic problems of urban areas, with special reference to the problem of urban land utilization and the spending and fund-raising problems of municipal governments.

G-440—**Economic Growth.** Four hours.

Prerequisite: Economics 330.

A study of the nature, causes, and effects of regional and national economic development.

G-450—**Money Markets and Monetary Policy.** Four hours.

Prerequisite: Economics 330.

A study of the nature and structure of money markets, of interest rate determination and patterns, and of the effects of monetary policy on money markets.

G-460—**Fiscal Theory.** Four hours.

Prerequisite: Economics 330.

A study of the theoretical bases for governmental fiscal operations.

G-470—**Comparative Economic Systems.** Four hours.

Prerequisite: Economics 330.

A course designed to acquaint the student with the origins, development, and characteristics of facism, socialism, communism, and capitalism.

G-482—**Contemporary Economic Problems I.** Two hours.

Prerequisite: Economics 330.

A study of the economic problems of monopoly, international trade, and income distribution.

G-484—**Contemporary Economic Problems II.** Four hours.

Prerequisite: Economics 330.

A study of the economic problems of the business cycle, inflation, growth, and the size and influence of the public economy.

500—**Microeconomic Theory.** Four hours.

Prerequisite: Consent of the instructor.

An advanced study of the theory of price.

505—**Macroeconomic Theory.** Four hours.

Prerequisite: Consent of the Instructor.

An advanced study of the theories of income and employment. general equilibrium, and growth.

510—**Monetary Theory and Fiscal Policy.** Four hours.

Prerequisite: Consent of the instructor.

An advanced study of the determination of the level of prices and of alternative monetary and fiscal policies in the light of social goals.

530—**Histoy of Economic Thought.** Four hours.

Prerequisite: Consent of the instructor.

A study of the development of economic theory since Adam Smith.

550—**Problems in Political Economy.** Four hours.

Prerequisite: Consent of the instructor.

A study of national economic problems and a critical analysis of policies designed to solve or ameliorate them.

598—**Thesis.** Six hours.

DEPARTMENT OF FINANCE

G-315—**Government and Business.** Four hours.

Prerequisite: Economics 200 or 251.

A study of the place of government in the business world, with emphasis on types of controls, regulation of public service corporations and financial institutions, laws to enforce competition, and government aids to business.

G-325—**General Insurance.** Four hours.

A beginning course in insurance, designed to explain the fundamental principles of risk bearing and to introduce the insurance mechanism as a device for reducing risk and sharing losses.

G-425—**Life Insurance.** Four hours.

A comprehensive treatment of life insurance with the use of materials paralleling those approved by the American College of Life Underwriters.

G-432—**Real Estate Finance.** Four hours.

Functions of real estate finances; the loan contract; the mortgage market; elements of mortgage risk; loan policy and administration of loans; and analysis of current mortgage market conditions.

G-434—**Real Estate Appraising.** Four hours.

Prerequisite: BA 330.

Designed to train students in the technique and art of real estate appraising. This course is concerned with the applicaton of the principles of property valuation to the various classes of realty; stress is laid on the character of land value, axioms of valuation and application of valuation procedures via the cost, market, and income approach to real estate value. The case method of instruction is used in order to enable students to prepare independent property appraisal reports.

G-440—**Transportation.** Four hours.

Prerequisites: Principles of economics, marketing and junior standing.

The principles, practices and problems of transportation that prevail in the United States.

G-445—**Fire and Casualty Insurance.** Four hours. (445)

Prerequisite: A previous course in insurance.

An analysis of the fire policy, consequential loss contracts, ocean and inland marine risks, automobile underwriting, and business liability protection.

G-450—**Corporation Finance.** Four hours. (489)

A course dealing with the organization of corporations, methods of financing and types of securities, analysis of causes of failure, and rehabilitation of bankrupt corporations.

G-452—**Investment Finance.** Four hours. (494)

Prerequisite: Business Administration 450.

The techniques of investment analysis as applied to industrial, railroad, public utility, and other securities, with emphasis placed upon the importance of a knowledge of American industry.

G-480—**Financial Management.** Four hours.

Study of the theory of assembling, investing, and managing capital. The principles of choosing from available, alternative combinations of short-term debt, long-term debt, and equity. The principles of evaluating and selecting capital projects; and the principles for combining capital and other inputs in such a way as to maximize efficiency and maintain liquidity.

540—**Survey of American Financial Institutions.** Four hours.

An integrated study of the American financial structure designed to give the student an understanding of all the major American financial institutions, their organizational structures, functions, interrelationships, methods of operation, and the services each one provides in our economy.

580—**Seminar in Finance.** Four hours.

A study of selected problems in business finance.

585—**Business History.** Four hours.

The history of business and the role of business in shaping social and economic institutions. The origins and development of capitalism from medieval to modern times. Special attention will be given to the influence of American business leaders on the financial development of the United States.

598—**Thesis.** Six hours. (Credit deferred until thesis is completed) (514B)

DEPARTMENT OF MANAGEMENT

G-460—**Personnel Management.** Four hours. (482)

A course covering the tools of personnel management, with principal emphasis on the major task of procuring, developing, maintaining, and using an effective working force.

G-462—**Introduction to Industrial Management.** Four hours. (483)

The basic principles and policies with respect to the management of an industrial plant, covering such topics as plant location and layout, purchasing, materials handling, quality control, maintenance, and production control systems.

G-468—**Wage and Salary Administration.** Four hours.

A study of wage and salary structures; preparation and use of job analysis, description and specifications; job evaluation, incentative systems and individual wage determination; and wage surveys, fringe benefits and merit rating systems.

520—**Problems in Management.** Four hours.

A concentration of selected social, economic, industrial and personnel problems in current managerial practice.

525—**Human Relations in Business.** Four hours.

A study of the problems of individuals and groups resulting from modern business organizations and techniques. Emphasis on motivations for work and cooperation between executives and different economic and social groups.

560—**History and Philosophy of Management.** Four hours.

A course designed to give the student a review and analysis of the writings of Taylor, Gilbreth, Fayol and later writers in the development

of scientific and modern management. Changing philosophies, thoughts and ideas in the field of management will be emphasized.

570—**Business Policy.** Four hours.

A study of the fields of policy-making and administration from a top management point of view. It integrates special fields of analysis and stresses the overall point of view in handling business problems.

DEPARTMENT OF MARKETING

G-300—**Principles of Marketing.** Four hours. (430)

A study designed to give a general understanding of marketing in present day society, the channels involved in the distribution of goods, and the functions performed by the institutions and agencies in marketing.

G-410—**Market Research:** Four hours. (458)

Prerequisites: Marketing 300 and Mathematics 320.

A study of principles and techniques used in market research and evaluation of such research.

G-470—**Marketing Problems.** Four hours. (470)

Prerequisite: Marketing 300 and consent of the instructor.

An examination of specific problems in the field of marketing, including problems of the individual enterprise with relation to channels of distribution, pricing, promotion, organization and trends. The case method is employed.

G-475—**Promotion Development.** Four hours. (477)

Prerequisites: Marketing 300, 330 and 355 or consent of instructor.

A study of the relationship of the business organization to the various interest groups which affect its promotional results, and the policies and procedures utilized in connection with such groups.

G-480—**Marketing Management.** Four hours.

Prerequisite: Open only to majors or minors in marketing during their senior year.

A comprehensive course designed to synthesize the more specialized marketing knowledge of the student. The interrelation of all marketing activities in reaching the firms objectives is emphasized through the study of case histories.

535—**Seminar in Marketing.** Four hours.

Prerequisites: Principles of Economics and Principles of Marketing.

An advanced study of marketing theories and phenomena.

DEPARTMENT OF OFFICE ADMINISTRATION

G-460—**Office Management.** Four hours. (460)

A study of the principles of management as applied to office work, covering office organization, supervision, layout, supplies, machines, training, office forms and reports, and office services.

551—**Advanced Methods in Business Teaching.** Four hours.

(See School of Education and Psychology).

552—**Seminar in Business Education.** Four hours. (See School of Education and Psychology).

598—**Thesis.** Six hours. (Credit deferred until thesis is completed) (514B)

DIVISION OF FINE ARTS

Raymond Mannoni, Chairman

Foltz	Imbragulio	Neumann
Avery	Lok	Pound
Hays	Maier	Presser
	Moody	Reims

GENERAL INFORMATION

As a result of the increased demand for more than undergraduate training in all lines of the music profession, the Division of Fine Arts has established graduate programs to accommodate qualified students in limited fields of concentration. The general requirements for graduate study leading to a Master's degree are listed below. The division treats each case individually, allowing the student some choice in determining his course of study. Selected work is subject to the approval of the student's advisory committee. The graduate music department of the Division of Fine Arts is fully accredited with the National Association of Schools of Music.

REGULATIONS

ADMISSION REQUIREMENTS: Admission to graduate study in the Division of Fine Arts (Music) will be granted at the discretion of the graduate committee under the following conditions:

1. The candidate must have graduated from an accredited institution with the degree of Bachelor of Music or Bachelor of Music Education, or an equivalent degree.

2. He must present undergraduate credit of no less than the equivalent of 192 quarter hours.

3. The student must have maintained an overall average of **B** in all subjects (music and academic) during his undergraduate study.

TESTS AND AUDITIONS: A testing program, for advising purposes, is one of the functions of the graduate school. The tests are given during the first week of the fall quarter and the first week of the summer quarter (for summer session students only) and are required of all graduate music students. Auditions for applied majors are given at the same time. Approval of the graduate faculty in music must be obtained before a student may major in an applied field.

DEFICIENCIES: The university shall have the power to decide wherein a student is in any manner deficient, regardless of the number of credits accumulated, and shall recommend means whereby such deficiency may be removed.

MASTER OF MUSIC DEGREE IN APPLIED MUSIC

Applied Music ..... 15 quarter hrs.
Recital ..... 0 quarter hrs.
Selected work from the following ..... 23 quarter hrs.

Music Theory (Minimum of 6 quarter hrs.)

Analytical Technique 521, 522, 523 ..... (2-2-2)
Pedagogy of Theory 511, 512, 513 ..... (2-2-2)
Advanced Composition G-411, G-412, G-413 ..... (2-2-2)
Advanced Counterpoint G-421, G-422, G-423 ..... (2-2-2)
Advanced Orchestration G-405, G-406, G-407 ..... (2-2-2)

Music History and Literature (Minimum of 6 quarter hrs.)

Seminar in Music Literature 561, 562, 563 ..... (2-2-2)
Baroque Music G-331 ..... (4)
18th Century Music G-332 ..... (4)
19th Century Music G-333 ..... (4)
History of Opera G-431 ..... (4)
American Music G-432 ..... (4)
20th Century Music G-433 ..... (4)
Vocal Literature G-441A, G-442A, G-443A ..... (2-2-2)
Piano Literature G-441B, G-442B, G-443B ..... (2-2-2)
Organ Literature G-441C, G-442C, G-443C ..... (2-2-2)
Instrumental Literature G-441D, G-442D, G-443D ..... (2-2-2)
Choral Literature G-441E, G-442E, G-443E ..... (2-2-2)
Symphonic Literature G-441F, G-442F, G-443F ..... (2-2-2)
Chamber Music G-441H, G-442H, G-443H ..... (2-2-2)
History of Church Music G-351, G-352, G-353 (2-2-2)
Gregorian Chant G-461 ..... (2)
Hymnology G-462 ..... (2)
Liturgies G-471, G-472, G-473 ..... (2-2-2)

Music Electives

Special Studies 591, 592, 593 ..... (1-3 hours each)
Research Essay 516 ..... (3)
Psychology of Music 555 ..... (4)
Administration of Church Music G-463 ..... (2)
Opera Workshop G-442, G-443 ..... (2-2-2)
Advanced Conducting G-431A or B, G-432A or B, G-433A or B ..... (2-2-2)

Directed courses outside the Department of Music ..... 8 quarter hrs.

Total ..... 46 quarter hrs.

MASTER OF MUSIC IN THEORY - COMPOSITION

Analytic Technique 521, 522, 523 ..... 6 quarter hrs.
Advanced Composition G-411, G-412, G-413 ..... 6 quarter hrs.
Arrangement or Composition for Symphonic Band or Orchestration 514 or Thesis 598 ..... 6 quarter hrs.
Selected work from the following ..... 20 quarter hrs.

Music History and Literature (minimum of 6 quarter hrs.)

- Seminar in Music Literature 561, 562, 563 (2-2-2)
- Baroque Music G-331 (4)
- 18th Century Music G-332 (4)
- 19th Century Music G-333 (4)
- History of Opera G-431 (4)
- American Music G-432 (4)
- 20th Century Music G-433 (4)
- Vocal Literature G-441A, G-442A, G-443A (2-2-2)
- Piano Literature G-441B, G-442B, G-443B (2-2-2)
- Organ Literature G-441C, G-442C, G-443C (2-2-2)
- Instrumental Literature G-441D, G-442D, G-443D (2-2-2)
- Choral Literature G-441E, G-442E, G-443E (2-2-2)
- Symphonic Literature G-441F, G-442F, G-443F (2-2-2)
- Chamber Music G-441H, G-442H, G-443H (2-2-2)
- History of Church Music G-351, G-352, G-353 (2-2-2)
- Gregorian Chant G-461 (2)
- Hymnology G-462 (2)
- Liturgies G-471, G-472, G-473 (2-2-2)

Music Electives

- Pedagogy of Theory 511, 512, 513 (2-2-2)
- Psychology of Music 555 (4)
- Special Studies 591, 592, 593 (1-3 quarter hrs. each)
- Applied Music (2-2-2)
- Advanced Conducting G-431A or B, G-432A or B, G-433A or B (2-2-2)

Directed courses outside the Department of Music 8 quarter hrs.

TOTAL 46 quarter hrs.

CURRICULUM FOR THE MASTER OF MUSIC EDUCATION DEGREE

Music Education 22 quarter hrs.

Required 12 quarter hrs.

- Seminar in Music Education 525, 526, 527 (2-2-2)
- *Thesis 598 (6)

Selected Work from the following 10 quarter hrs.

- Applied Music (1-1-1)
- Special Studies 591, 592, 593 (1-3 qt. hrs. each)
- Psychology of Music 555 (4)
- Curriculum Problems in Music Ed. G-423A (2)
- Organization & Administration of School Orchestras & Bands G-423B (2)
- Advanced Strings Methods G-425 (2)
- Advanced Winds Methods G-427 (2)
- Percussion Methods G-429 (2)
- Advanced Conducting G-431A or B, G-432A or B, G-433A or B (2-2-2)
- Opera Workshop G-441, G-442, G-443 (2-2-2)

Music: (Minimum of 6 quarter hrs. in Theory & 6 in Hist. or Lit.) 16 quarter hrs.

- Pedagogy of Theory 511, 512, 513 (2-2-2)

Analytical Techniques 521, 522, 523 ..... (2-2-2)
Advanced Orchestration G-405, G-406, G-407 ..... (2-2-2)
Seminar in Music Literature 561, 562, 563 ..... (2-2-2)
Baroque Music G-331 ..... (4)
18th Century Music G-332 ..... (4)
19th Century Music G-333 ..... (4)
History of Opera G-431 ..... (4)
American Music G-432 ..... (4)
20th Century Music G-433 ..... (4)

Directed Courses in the School of Education ..... 8 quarter hrs.

TOTAL ..... 46 qt. hrs.

*Eight hours of electives in music may be taken in lieu of thesis.

COURSE DESCRIPTIONS

DEPARTMENT OF APPLIED MUSIC AND ORGANIZATIONS

501-502-503—**Piano.** One to five hours each quarter. (505-506-507)

511-512-513—**Organ.** One to five hours each quarter (517-518-519)

521-522-523—**Strings. (Violin or 'Cello)** One to five hours each quarter. (502-503-504)

531-532-533—**Woodwinds.** One to five hours each quarter.

541-542-543—**Brass.** One to five hours each quarter.

551-552-553—**Percussion.** One to five hours each quarter.

561-562-563—**Voice.** One to five hours each quarter. (508-509-510)

DEPARTMENT OF MUSIC

G-331—**Baroque Music.** Four hours.

Rise of oratorio and opera; keyboard literature; development of the concerto principle; instrumental ensembles; sacred and secular cantatas; performance practice. Open to non-music majors with consent of instructor. Offered 1963-64 and in alternate years.

G-332—**18th Century Music.** Four hours.

Development of the sonata-concept and its application to musical forms through Beethoven. Open to non-music majors with consent of instructor. Offered 1963-64 and in alternate years.

G-333—**19th Century Music.** Four hours.

Origins of musical romanticism; expansion of the sonata-concept; symphonic poem and music drama; piano works and Lieder; nationalism. Open to non-music majors with consent of instructor. Offered 1963-64 and in alternate years.

G-351,G-352,G-353—**History of Church Music.** Two hours each.

G-405,G-406,G-407—**Advanced Orchestration.** Two hours each (403-404-405)

G-411,G-412,G-413—**Advanced Composition.** Two hours each (400-401-402)

Writing in larger forms for various choral and instrumental combinations.

G-421,G-422,G-423—**Advanced Counterpoint.** Two hours each. (497-498-499)

Eighteenth century canons and fugal writing. Sixteenth century writing in madrigal style.

G-431—**History of Opera.** Four hours.

The history of musical theatre from Greek drama to present. Open to non-music majors with consent of instructor. Offered 1962-63 and alternate years.

G-432—**American Music.** Four hours.

A study of the development of music in North America with particular emphasis in three areas; (1) European heritage (2) jazz (3) composers of the twentieth century whose idiom evidences strong roots in American culture. Open to non-music majors with consent of instructor. Offered 1962-63 and in alternate years.

G-433—**20th Century Music.** Four hours.

Examination of musical trends since Debussy and Mahler. Open to non-music majors with consent of instructor. Offered 1962-63 and alternate years.

G-441A, G-442A, G-443A—**Vocal Literature.** Two hours each.

G-441B, G-442B, G-443B—**Piano Literature.** Two hours each.

G-441C, G-442C, G-443C—**Organ Literature.** Two hours each.

G-441D, G-442D, G-443D—**Instrumental Literature.** Two hours each.

G-441E, G-442E, G-443E—**Choral Literature.** Two hours each.

A survey of accompanied and unaccompanied choral music from Gregorian chant to the present. Open to non-music majors with consent of instructor.

G-441F, G-442F, G-443F—**Symphonic Literature.** Two hours each.

The history and literature of the symphony orchestra from 1600 to the present. Open to non-music majors with consent of instructor.

G-441H, G-442H, G-443H—**Chamber Music.** Two hours each.

A survey of music for small instrumental ensembles with emphasis on string literature. Open to non-music majors with consent of instructor.

G-461—**Gregorian Chant.** Two hours.

This course is designed to acquaint the student with the History and Development of Gregorian Chant with literature and recordings for demonstration purposes. Practical experience in conducting Gregorian Chant is offered also.

G-462—**Hymnology.** Two hours.

The complete history of the Christian Hymn from its root form to present day forms is presented. The complete development of the Christian Hymn playing and presenting Hymns is studied.

G-463—**Administration of Church Music.** Two hours.

All practical aspects of Church Music are presented in this course such as: building a church library, organizing and directing the various choirs of the church, the volunteer choir system, directing from the console, etc.

G-471, G-472, G-473—**Liturgies.** Two hours each.

Liturgy in worship; the Jewish, Eastern Orthodox, and Roman Catholic liturgies and their music; liturgies of the Reformation period; music of the Lutheran, Calvinist, and Anglican churches; music of the non-liturgical churches.

511, 512, 513—**Pedagogy of Theory.** Two hours each quarter. (524-525-526)

A course in the teaching of theory for the graduate student.

514—**Arrangement or Composition for Symphonic Band or Orchestra.** Six hours. (516)

Open to students with a major in theory-composition.

515—**Recital.** 0 hours.

Required for a major in applied music.

516—**Research Essay.** Three hours.

521, 522, 523—**Analytical Technic.** Two hours each quater.

A graduate course in the technic of harmonic and contrapuntal analysis.

561, 562, 563—**Seminar in Music Literature.** Two hours each quarter.

Study of the music of individual composers or of special areas of music history or literature.

591, 592, 593—**Special Studies.** One to three hours each quarter (590-591-592)

Investigation of specialized areas within the broad field of music, with emphasis on areas of individual student interest.

DEPARTMENT OF MUSIC EDUCATION

G-423A—**Curriculum Problems in Music Education.** Two hours.

Prerequisite: 422A.

Intensive research into and discussion concerning current values and trends in music education in America.

G-423B—**Organization and Administration of School Orchestra and Bands.** Two hours.

Prerequisite: 422B.

Techniques of promoting and maintaining successful orchestra, bands and instrumental ensembles; research by students; emphasis on problems of marching bands and pageantry.

G-425—**Advanced Strings Methods.** Two hours.

G-427—**Advanced Winds Methods.** Two hours.

G-429—**Percussion Methods.** Two hours.

G-431A, G-432A, G-433A—**Advanced Choral Conducting.** Two hours each.

Conducting and interpreting of representative works of great choral school and composers since the sixteenth century; opportunities for formation of judgment of choral music. Church chorus and sacred music studies in fall quarter.

G-431B, G-432B, G-433B—**Advanced Instrumental Conducting.** Two hours each.

G-441, G-442, G-443—**Opera Workshop.** Two hours each.

G-490A, 491A, 492A—**Piano Workshop.** 1½ hours each.

G-490B, 491B, 492B—**Instrumental Workshop.** 1½ hours each.

G-490C, 491C, 492C—**Choral Workshop.** 1½ hours each.

G-490E, 491E, 492E—**Elementary Music.** 1½ hours each.

525, 526, 527—**Seminar in Music Education.** Two hours each quarter. (533-534-535)

Required of all students pursuing the Master's degree in Music Education. Open by permission to other interested students. This course reviews current philosophies of education and their application to the music curriculum. In addition, the student will engage in studies of individually chosen problems of special interest.

555—**The Psychology of Music.** Four hours. (530-531-532)

A course designed particularly for the teacher or prospective teacher of music. Review of fundamental concepts from the science of psychology. Special study in the areas of auditory perception, motivation, and personality leading to an understanding of individual differences in musical capacities and concomitant application in teaching.

598—**Thesis.** Six hours. (514B)

Required for students in Music Education.

DIVISION OF HOME ECONOMICS

Bertha M. Fritzsche, Chairman
Barnett Drain Golden

Graduate work in the Division of Home Economics offers the opportunity to earn the Master of Science degree.

General Points

1. Graduate work in the major department must be preceded by at least enough course work in that department to satisfy the undergraduate requirements for a major or enough related work to satisfy the head of the major department that the student can successfully do graduate work in the field chosen as his major. Graduate work in the minor department, or departments, must be preceded by at least enough course work in each department in which the student minors to satisfy the undergraduate requirements for a minor, or enough related work to satisfy the head of the minor department that the student can successfully do graduate work in the field chosen as his minor.

2. Upon the completion of the graduate program, a comprehensive oral examination covering major and minor fields will be required to fulfill the qualification for a degree.

3. Students may have the option of the thesis plan or the non-thesis plan. A four-quarter hour course in research must be completed, regardless of the choice of plan—Thesis Option or Non-thesis Option.

4. General requirements for admission to the Graduate School and admission to candidacy for a Master's degree may be found listed elsewhere in this bulletin.

MASTER OF SCIENCE DEGREE

Plan for major and minors for Master of Science Degree earned in the Division of Home Economics:

A. Major and minor areas.

1. Suggested major areas:
   Child Development
   Family Living
   Institution Management
   Home Economics Education

2. Suggested minor areas:
   Child Development
   Clothing and Textiles
   Family Living
   General Home Economics
   Home Management
   Foods and Nutrition
   Equipment
   Psychology
   Sociology
   Education

3. Suggested combinations:

Major	Minor
Child Development	Family Living or Food and Nutrition
Family Living	Child Development or Food and Nutrition or Home Management
Institution Management	Food and Nutrition or Home Management or Equipment
Home-Economics Education	General Home Economics

B. Thesis Plan

1. Twenty-four hours in a major area exclusive of thesis.
   For the major in Home Economics Education two courses in Education are required: FED 501 and 504, and sixteen hours in courses in Home Economics Education.

2. Six hours for thesis in Home Economics Education.

3. A minor of sixteen hours in an area other than that of the major, excepting for Home Economics Education which requires a minor of 24 hours. General Home Economics is recommended for those majoring in Home Economics Education.

4. FED 501—**Research: Its Introduction and Methodology.** Four hours.

C. Non-thesis Plan

1. Twenty-four hours in a major area.
   For the major in Home Economics Education, two courses in Education are required: FED 501 and FED 504. Four to six quarter hours of this work are to be a *field study, a special problem, or an internship in or related to the specialized area.

This part of the program must be preceded by FED 501, or the equivalent, and sufficient course work to satisfy the student's advisory committee.

*Example: Graduate work at Merrill Palmer as approved in 1955.

2. A minor of sixteen hours in an area other than that of the major, except Home Economics Education, which requires a minor of 24 hours. General Home Economics is recommended for those majoring in Home Economics Education.

3. FED 501—Research: Its Introduction and Methodology. Four hours.

2. a. A minor of sixteen quarter hours in an area other than that of the major. General Home Economics is recommended for those majoring in Home-Economics Education.

Home Economics Education

The Master's program in Home-Economics Education is designed for (1) teachers of homemaking education in the public school; (2) teachers of home economics on the junior college level and (3) those interested in supervisory positions in home economics. Those preparing for teaching homemaking education may follow the thesis plan or the non-thesis plan. Those preparing for teaching home economics on the college level and for supervisory positions in home economics are advised to write a thesis.

Students who elect this major for their Master's degree should have complied with the undergraduate requirements in home-economics education or the equivalent.

CURRICULUM PRESCRIPTIONS

I. Courses in education:

FED 504—Foundations in American Education. Four hours.

FED 501—Research: Its Introduction and Methodology. Four hours.

II. Courses in home economics education to a total of 20 quarter hours for non-thesis option. Six hours of which are to be a special problem or field study

HOME ECONOMICS EDUCATION 500—Supervision of Home Economics. Four hours.

HOME ECONOMICS EDUCATION 502—Home Economics in American Education. Four hours.

HOME ECONOMICS EDUCATION 504—Curriculum Problems in Home Economics. Four hours.

HOME ECONOMICS EDUCATION 514—Teaching Homemaking to Adults. Four hours.

HOME ECONOMICS EDUCATION 552—Teaching Family Living on the Secondary Level. Four hours.

HOME ECONOMICS EDUCATION 592—Special Problems in Home Economics. Two to six hours.

HOME ECONOMICS EDUCATION 594—Seminar in Home Economics. Two to six hours.

HOME ECONOMICS EDUCATION 596—Research in Home Economics Education. Two to six hours.

HOME ECONOMICS EDUCATION—598—Thesis writing. Six hours.

III. Courses in areas of subject-matter to a total of 16 quarter hours may may be taken from the following, depending upon the interest of the student and the recommendation of the committee.

CHILD DEVELOPMENT 592—Special Problems in Child Development. Two to six hours.

CHILD DEVELOPMENT 594—Seminar in Child Development. Two to six hours.

CHILD DEVELOPMENT 596—Research in Child Development. Two to six hours.

CLOTHING AND TEXTILES 570—Textiles: Recent Development. Two hours.

CLOTHING AND TEXTILES 580—Institute on the Bishop Method of Clothing Construction. Basic Course. One and one-half hours.

CLOTHING AND TEXTILES 581—Institute on the Bishop Method Applied to Tailoring. One and one-half hours.

CLOTHING AND TEXTILES 582—Institute on the Bishop Method Applied to Tailoring and the Cutting-to-Fit Course. Two hours.

CLOTHING AND TEXTILES 592—Special Problems in Clothing. Two to six hours.

FOOD AND NUTRITION 575—Community Health and Nutrition. Four hours.

FOOD AND NUTRITION 577—The Nutrition of Children. Four hours.

FOOD AND NUTRITION 578—Quantity Food Preparation. Four hours.

FOOD AND NUTRITION—579—School Lunch Supervision. Four hours.

FOOD AND NUTRITION 580—Institution Organization and Administration. Four hours.

FOOD AND NUTRITION 592. Two to six hours.

Special Problems in:

a. Nutrition
b. Institution Management.

FOOD AND NUTRITION 594—Seminar in Institution Management. Two to six hours.

FOOD AND NUTRITION 596—Research in Institution Management. Two to six hours.

HOUSING AND HOME MANAGEMENT 540—Home Engineering. Four hours.

HOUSING AND HOME MANAGEMENT 592—Special problems in any of the following areas: Two to six hours.

a. Household Equipment
b. Housing
c. Home Furnishings
d. Home Management

MARRIAGE AND FAMILY LIVING 550—Early Marriage Adjustments. Four hours.

MARRIAGE AND FAMILY LIVING 551—Family in the Community. Four hours.

MARRIAGE AND FAMILY LIVING 554—Parents and Children. Four hours.

MARRIAGE AND FAMILY LIVING 592—Special problems in Family Living. Two to six hours.

MARRIAGE AND FAMILY LIVING 594—Seminar in Family Living. Two to six hours.

MARRIAGE AND FAMILY LIVING 596—Research in Family Living. Two to six hours.

CHILD DEVELOPMENT G-420—Advanced Child Development. Four hours.

CLOTHING AND TEXTILES G-312—Textiles. Four hours.

CLOTHING AND TEXTILES G-456—Textile Economics. Two hours.

FOOD AND NUTRITION G-442—Experimental Foods. Four hours.

FOOD AND NUTRITION G-444—The School Lunch. Four hours.

FOOD AND NUTRITION G-476—Diet in Disease. Four hours.

FOOD AND NUTRITION G-478—Advanced Nutrition. Four hours.

MARRIAGE AND FAMILY LIVING G-351—Marriage and the Family. Four hours.

COURSE DESCRIPTIONS

CHILD DEVELOPMENT (CD)

G-420—**Advanced Child Development.** Four hours.

This course is for students interested in further study of pre-school children and in developing techniques and accepting full responsibilities in the daily activity of the nursery school.

Special problems will be included on the graduate level.

592—**Special Problems in Child Development.** Two to six hours.

594—**Seminar in Child Development.** Two to six hours.

596—**Research in Child Development.** Two to six hours.

598—**Thesis writing.** Six hours.

CLOTHING AND TEXTILES (C&T)

G-312—**Textiles.** Four hours.

A practical consumer study of textiles; the fibers, structure, design, finish, and quality of fabrics for clothing and home furnishings including selection, use, and care.

G-456—**Textile Economics.** Two hours.

A study of problems which affect the consumer in the production, distribution, and consumption of textiles and clothing. Survey of recent developments in the textile and clothing field.

570—**Textiles: Recent Development.** Two hours. (670)

590—**Institute on the Bishop Method of Clothing Construction.**

Basic Course. One and one-half hours. (660)

Workshop in clothing construction in which student is taught the newest development in teaching clothing construction, the unit method introduced by Mrs. Edna Bryte Bishop.

591—**Institute on the Bishop Method Applied to Tailoring.** One and one-half hours. (661)

592—**Special Problems in Clothing.** Two to six hours. (674a)

593—**Institute on the Bishop Method Applied to Tailoring and the Cutting-to-Fit Course.** Two hours. (662)

FOOD AND NUTRITION (F&N)

G-442—**Experimental Foods.** Four hours.

Prerequisite: Home Economics 285.

This course will include elementary research to determine factors affecting standard products and experimentation in preparation, ingredients, methods of cooking, temperature and utensils used. Special problems will be included on the graduate level.

G-447—**The School Lunch.** Four hours.

This course will include actual experience in menu planning, large quantity food preparation for school lunch room, food buying, serving, a study of equipment and organization for school lunch rooms. Special problems will be included on the graduate level.

G-476—**Diet in Disease.** Four hours.

This course will involve study of diseases which are influenced by diet and the dietetic treatment of these diseases. Special problems will be included on the graduate level.

Prerequisite: Foods and Nutrition 335.

G-478—**Advanced Nutrition.** Four hours.

Four 1-hour periods weekly.

Prerequisite: Foods and Nutrition 335.

Study of current literature for newer findings in the field of nutrition.

575—**Community Health and Nutrition.** Four hours (675)

This course is planned to give insight and understanding of the relation of the development and training of pupils enrolled in classrooms to conditions and facilities of their community. Health will be discussed not only from the physical aspect of the individual, but from the mental, social, economic, and spiritual requirements necessary for wholesome development. Students will be expcted to make a survey of the health facilities of their community and study methods for determining the nutritional status and food habits of pupils in a classroom. Each student will prepare an original paper on a problem in this field in which she has a special interest.

577—**The Nutrition of Children.** Four hours. (677)

This course will deal with the application of the basic principles of nutrition in the growth and development of children, beginning with birth and continuing through early childhood, school age, and adolescence to maturity. Methods of studying visible and invisible growth, of recognizing hidden hunger and development will be explored; the relation of nutrition to the mental, social, and emotional development of the individual will be considered; also the factors influencing food practices in families. The course will include some guided observation of children as assigned periods.

578—**Quantity Food Preparation.** Four hours. (678)

Prerequisite: Approval of Instructor.

One lecture and six hours of laboratory.

Application of basic principles of cookery to preparation of food in large quantities; standardization of formulas with reference to quantity, manipulation, and cost. Use of institution food service equipment.

579—**School Lunch Supervision.** Four hours. (679)

A study of the school lunch program, of organization and administration with experiences which will help the school lunch supervisor in supervising school lunch programs on the city, county, and national level.

580—**Institution Organization and Administration.** Four hours. (680)

Analysis of quantity food service operations as related to methods of control, selection and training of personnel, labor laws, employer-employee relationships so as to produce a system of order into a group of related activities and provide the means for their direction and development.

592—**Special problems in:** (674d)

a. Nutrition. Two to six hours.

b. Institution Management. Two to six hours.

594—**Seminar in Food and Nutrition.** Two to six hours.

596—**Research in Food and Nutrition.** Two to six hours.

598—**Thesis writing.** Six hours. (514B)

HOME ECONOMICS EDUCATION (HEE)

500—**Supervision of Home Economics.** Four hours. (600)

Designed for high school home-economics teachers interested in the student-teacher program. The course stresses the supervisory practices and procedures for promoting student-teacher growth and development. Supervisory problems in guidance of students for homemaking education teachers will be included.

502—**Home Economics in American Education.** Four hours. (602)

This course is a brief survey of Home Economics in American Education. It is designed to give understanding of the trends and issues in curriculum development, instruction, guidance, supervision, administration and research in this field.

504—**Curriculum Problems in Home Economics.** Four hours. (604)

A course for teachers which deals with problems in curricula making. It will include the place of homemaking education in the total school curriculum for that specialized area. Opportunity will be given for students to work out practical problems relating to their local schools.

510—**Home Economics in Higher Education.** Four hours.

Home economics at the college level will be studied with special reference to that of the junior college. Problems in development of the curriculum, in college instruction, in guidance of students, in administrative problems and in evaluation of a department will be considered.

514—**Teaching Homemaking to Adults.** Four hours. (614)

A study of the adult homemaking-education program with experiences which will help to effectively participate in it. Special problems will be included.

552—**Teaching Family Living on the Secondary Level.** Four hours. (652)

A study of the theory, content, and methods of marriage and family life education at the secondary level.

Designed to meet the needs of high school teachers and administrators in this area.

592—**Special Problems in Home Economics Education.** Two to six hours. (612)

Students will be encouraged to choose for investigation research problems which are pertinent to their situation.

594—**Seminar in Home Economics Education.** Two to six hours. (608)

Seminar problems may be taken for two, four, or six quarter hours of credit.

596—**Research in Home Economics Education.** Two to six hours.

598—**Thesis writing.** Six hours. (Credit deferred until thesis is completed).

HOUSING AND HOME MANAGEMENT (H&HM)

540—**Home Engineering.** Four hours. (640)

This course includes a study of the selection, placement, and storage of home appliances and their use as is related to the mechanical features. Considerable time will be spent in design characteristics of the various appliances and the media used. The adaption of certain activities to adult programs, as well as to the junior and the senior high school, will be made.

592—**Special problems in any of the following areas:** Two to six hours. (674f, e, g, h)

a. Household Equipment
b. Housing
c. Home Furnishings
d. Home Management

MARRIAGE AND FAMILY LIFE (M&FL)

G-351—**Marriage and Family Living.** Four hours.

This course is designed to give the student a better understanding of the factors that contribute to success and happiness in marriage. Preparation for marriage, marriage adjustment, family functions and situations, and factors making for successful living will be emphasized. Special problems will be included on the graduate level.

550—**Early Marriage Adjustments.** Four hours. (650)

Deals with the social-psychological aspects of the pair relationships during engagement and early marriage. Emphasis will be placed on interaction and communication as the pair faces the determining of family goals, the use of resources, planning for the family, and living together.

A study will be made of college marriages.

551—**The Family in the Community.** Four hours. (651)

Designed to help the teacher better understand the social setting in which students live and its importance in the development of family living courses to meet student needs.

554—**Parents and Children.** Four hours. (654)

This course is offered to students who are interested in parent-child relationships. Emphasis will be given to parent-child inter-action, home-school relationships and methods of working with parents in groups and individually.

592—**Special Problems in Family Living.** Two to six hours. (674f)

594—**Seminar in Family Living.** Two to six hours.

596—**Research in Family Living.** Two to six hours.

598—**Thesis Writing.** Six hours. (514B)

REGISTER FOR 1961-62

DEGREES GRANTED

JUNE 3, 1962

MASTER OF ARTS

NAME	MAJOR	ADDRESS
William Sidney Coker	History	Austin, Texas

MASTER OF EDUCATION

Genevieve Martin Branch	Elementary Principals and Supervisors	Bogalusa, La.
Matilda Fortenberry Crain	Elementary Principals and Supervisors	Bogalusa, La.
Mildred Winstel Earles	Elementary Principals and Supervisors	Bogalusa, La.
Mildred Ellzey	Elementary Principals and Supervisors	Bogalusa, La.
James Tallie Funderburk	Secondary Education	Mobile, Ala.
John Thomas Hazard	College Counseling	Biloxi, Miss.
Eleanor Montague Henderson	Secondary Education	Hattiesburg, Miss.
Joe Earl Jolloway	School Administration & Supervision	Meadville, Miss.
Charles Ernest McMullan	School Administration & Supervision	Agricola, Miss.
Olivia R. Talley	Elementary Education	Bogalusa, La.
Allen B. Thompson	College Counseling	Hattiesburg, Miss.

MASTER OF MUSIC EDUCATION

Bill Wallace Porter	Music Education	Meridian, Miss.

MASTER OF SCIENCE

Mable Weston Bradley	Speech	Mobile, Ala.
Helen Gillis Burt	English	Fayette, Miss.
Shirley Spencer Caldwell	Business Education	Lucedale, Miss.
Bobby Joe Carroll	Microbiology	Hattiesburg, Miss.
Estelle Beard Cravey	Home Economics Education	Ovett, Miss.

MASTER OF ARTS

Raymond V. Downey	English	Hattiesburg, Miss.
Shirley Joyce Davis Flick	English	Hattiesburg, Miss.
James C. Holaday	Speech Pathology	Azusa, Calif.
Jean Ellen Myatt	English	Purvis, Miss.
Newton Dorr St. John, Jr.	Speech Therapy	Ormond Beach, Fla.
Janet Cornell Terreson	English	Pascagoula, Miss.
Thomas Winfred Welford	Speech	Citronelle, Ala.

MASTER OF EDUCATION

George Batty	Elementary Education	Milton, Fla.
Howard Erskin Beasley	School Administration & Supervision	Hazlehurst, Miss.
Ralph P. Beckett, Jr.	Educational Administration and Supervision	Montgomery, Ala.
Alvie Clarence Blackledge	Secondary Education	Waynesboro, Miss.

Elizabeth Fitzgerald Brashears	Elementary Education	Meridian,	Miss.
Westley Don Cameron	Administrative Personnel and Counseling	Fayette,	Miss.
Jocelyn Uchello Carr	Elementary Education	Biloxi,	Miss.
Ada Mary Virginia Carroll	Elementary Education	Franklinton,	La.
William Otha Cooley, Jr.	School Counseling	Hattiesburg,	Miss.
Elizabeth Venell Parker Creel	Elementary Education	Bogalusa,	La.
James Phillip Creel	Educational Administration and Supervision	Magnolia,	Miss.
James Alfred Duncan	Elementary Principals and Supervisors	Hattiesburg,	Miss.
Fred B. Fendley	Elementary Principals and Supervisors	Lucedale,	Miss.
Frederick Edwin Fuqua	Elementary Principals and Supervisors	Gulfport,	Miss.
Rollin E. Gates	Educational Administration anw Supervision	Saraland,	Ala.
Robert Evon Gavin	Educational Administration and Supervision	Stringer,	Miss.
Myrtice Kelly Gill	Elementary Education	Moss Point,	Miss.
Harry Cyril Glover	Educational Administration and Supervision	Metairie,	La.
Yvonne Malley Griffith	Educational Administration and Supervision	Bogalusa,	La.
Nell Craft Hardage	School Counseling	Hattiesburg,	Miss.
Billie Irene Smith Hodges	Elementary Principals and Supervisors	Leakesville,	Miss.
Ruby Moses Houston	Elementary Principals and Supervisors	Bogalusa,	La.
Thomas Henry Hutchinson	School Counseling	Hattiesburg,	Miss.
Jeanne Ingram	Elementary Education	Pensacola,	Fla.
Kenneth Leroy Inman	Educational Administration and Supervision	Biloxi,	Miss.
Frances Foil Lee	Secondary Education	Bogalusa,	La.
Walter Franklin Lucas	Secondary Education	Vossburg,	Miss.
George Dale Lynch	School Counseling	Wilmer,	Ala.
Mack Primm	Educational Administration and Supervision	Madison,	Fla.
Mary Alma Redmon	Elementary Education	Seminary,	Miss.
Bonnie Lynn Renfro	Elementary Education	Hattiesburg,	Miss.
Carolyn Hemphill Rials	Elementary Principals and Supervisors	Leakesville,	Miss.
Jerry Wayne Rodriguez	Educational Administration and Supervision	Biloxi,	Miss.
Lowrey Thomas Simmons	Educational Administration and Supervision	Pensacola,	Fla.
Erma Mae Walker Sims	Elementary Education	Laurel,	Miss.
James Artis Sinclair	Educational Administration and Supervision	Brookhaven,	Miss.
Kathleen H. Touchstone	Elementary Education	Hattiesburg,	Miss.
M. Dreux Van Horn, II	Secondary Education	Pass Christian,	Miss.
Joseph Edward Watson	School Counseling	Laurel,	Miss.
Norman Claude Wells	School Counseling	Kreole,	Miss.
Willie F. Hope White	School Counseling	Summit,	Miss.
Aliece Walley Williams	Elementary Principals and Supervisors	Leakesville,	Miss.
Henry Albert Wood, Jr.	Educational Administration and Supervision	Tylertown,	Miss.
Sidney Franklin Wood, III	Secondary Education	Mobile,	Ala.

MASTER OF MUSIC EDUCATION

Fred Jackson Hogue, II	Instrumental Music Education	Gulfport,	Miss.

MASTER OF MUSIC

James Oliver Allen	Piano	Hattiesburg, Miss.
Virginia Anne Avery	Organ	Purvis, Miss.
Durwood Clifton Ware, Jr.	Applied Music	Jackson, Miss.

MASTER OF SCIENCE

Joseph Samuel Anzalone	College Counseling	Hattiesburg, Miss.
William D. Bellamy	College Counseling	Hattiesburg, Miss.
Etta Mae Case Berry	Home Economics Education	Raymond, Miss.
Patricia Basden Beverly	English	New Orleans 24, La.
Louise K. Bishop	Biology	Rolling Fork, Miss.
Lelia Louise Bourdin	Home Economics Education	Pass Christian, Miss.
Ruth Buckland Brown	English	Hattiesburg, Miss.
John Bennett Easterling	Business Admininsration	Richton, Miss.
Glenn E. Endrie	Economics	Biloxi, Miss.
Lillian Atkins Hayslett	Zoology	Hattiesburg, Miss.
Norman Hollis Hendry	Economics	Bay Springs, Miss.
Vaino O. Johnson	English	Handsboro, Miss.
Ronald Curtiss Kersh	Psychology	Biloxi, Miss.
Elizabeth Leigh Lassetter	English	Poplarville, Miss.
Samuel Asa Lewis	History	Hattiesburg, Miss.
George E. McDuffie	Administrative Personnel & Counseling	Beaumont, Texas
Ernestine Ward McEachern	School Counseling	Lucedale, Miss.
Edith Ann Miller	English	Lauderdale, Miss.
Alvin Fleet Moss	Mathematics	Petal, Miss.
Robert Edwin Netherland	Mathematics	Brookhaven, Miss.
Lawton Kermit Owens	Business Administration	Hattiesburg, Mis.s
Nancy Lyle Pollock	Hospital Recreation	Richmond, Missouri
William Harold Risher, Jr.	Economics	Jackson, Miss.
Harold David Rouse	Business Administration	Saucier, Miss.
Edgar Hayward Sessions	History	Hattiesburg, Miss.
Margaret Craft Smith	Home Economics Education	Alexandria, La.
Mary Alyce Smith	Business Education	Biloxi, Miss.
Collier Lamar Starkey	Industrial Arts	Semmes, Ala.
Margaret Mary Vasterling	Speech Therapy	New Orleans, La.
Jewell W. Vincent	History	Hattiesburg, Miss.
Dock B. Wall	Health & Physical Education	Newton, Miss.
Lee Bangs Wheeler	Mathematics	Kentwood, La.
Glenn H. Woods, Jr.	History	Bridgewater, Vermont
Sadie Hurst Brown	Business Education	Magee, Miss.
Marion Anne Busby	Business Education	Waynesboro, Miss.
Roy Garland Clark	Economics	Laurel, Miss.
Raymond Andrews Curtis	Business Administration	Hattiesburg, Miss.
Mary Ann Tharp Dean	English	Lumberton, Miss.
Robert S. Doherty	Economics	Huntsville, Ala.
Arthur Hudson Dunagin	Administrative Personnel & Counseling	Hattiesburg, Miss.
Clyde Raymond Everett	Mathematics	Ft. Walton Beach. Fla.
Winifred Hamrick Farrar	English	Meridian, Miss.
Charles Riggs Ferguson	Microbiology	Natchez, Miss.
Cathryn Futral	English	Wadley. Ga.
Clifford Sidney Goldsmith	Economics	Arcadia, Fla.
Richard Corbett Guess	Business Administration	Hattiesburg, Miss.
Hilda Pearl Holifield	Business Education	Laurel, Miss.
Doyle Hill James	School Counseling	Semmes, Ala.
Lenward Adams Lee	Economics	Brooklyn, Miss.

Richard Jean Linden	Industrial Arts	Chicago 31, Ill.
Sandra McClung	Speech Therapy	Tunica, Miss.
Elly Nae Lumpkin McCrimmon	Business Education	Avon, Miss.
David Byrd Moffett, Jr.	Business Administration	Laurel, Miss.
Quinton Sherva Napier	Teaching Biological Sciences	Collins, Miss.
Shelby L. Prestridge	Industrial Arts	Magnolia, Miss.
Roy Lawrence Price	College Counseling	Lake Charles, La.
Peter Psikogios	Business Administration	Biloxi, Miss.
William S. Roberts	Business Education	Pensacola, Fla.
Louie Rudolph Sellers	Business Education	Ellisville, Miss.
Edward B. Singletary, Jr.	Business Administration	Laurel, Miss.
Lawrence Columbus Smith, Jr.	Business Administration	Bude, Miss.
Archie Merle Strahan	History	Petal, Miss.
L. D. Stringfellow	Mathematics	Lucedale, Miss.
Joyce Ellen Tally	Speech	Hattiesburg, Miss.
Etta Mauree Thomas	Home Ec. Education	Laurel, Miss.
Truman McKenzie Thornton	Home Ec. Education	Bay Springs, Miss.
Lynette Calcote Tuggle	Home Ec. Education	Brookhaven, Miss.
Flora May Watts	Business Education	Hattiesburg, Miss.
Hendon Madeene Smith Watts	Biology	Hattiesburg, Miss.
Vernon M. Welch, Jr.	Community Counseling	Vicksburg, Miss.
Daniel Herman Williams	Mathematics	Gulfport. Miss.

DOCTOR OF PHILOSOPHY

Eugene M. Keebler	Educational Administration	Norman Park, Ga.

DOCTOR OF EDUCATION

Elizabeth Martin Antley	Educational Admin.	Long Beach, Miss.
Herbert Eugene Lucy	Guidance	Hattiesburg, Miss.
Charles Edward Martin	Educational Admin.	Hattiesburg, Miss.
Morris Osborn	Educational Admin.	Syracuse, N. Y.
Sylvester Tucker Pendarvis	Educational Admin.	Hattiesburg, Miss.
Samuel Luther Spinks, Jr.	Educational Admin.	Hattiesburg, Miss.
Latney Conrad Welker, Jr.	Educational Admin.	Natchez, Miss.

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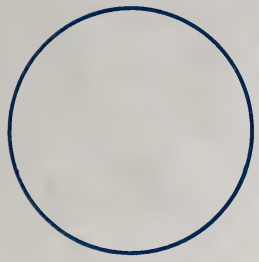
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